



ITI POLAND
Polymers & Compounds



FLEXIBILITY AND DYNAMISM!

I.T.I. Poland Sp. z o.o. is a polish producer and distributor of polymers and compounds. Today, the company has two production plants located in Kujawy (Wielowieś and Gniewkowo) and achieves a production capacity of 16.000 tons per year.

The company's product range includes Polypropylenes (PP) homopolymers and copolymers with our trademark ITIPLÉN, and Polyethylenes (PE) high-density (PEHD) and low-density (PELD) with our trademark ITILEN.

Our products are available in a full range of colours, but mainly in black, brown, blue and green.

Thanks to the direct participation of Mepol s.r.l. and the official agreements on distribution with, I.T.I. Poland Sp. z o.o. provides products designed for customers' specific needs, while maintaining good standards of quality, cost competitiveness, quick answer and a high level of flexibility in meeting orders.

We continuously work to improve and expand our product range to the requirements and needs of our customers. In order to be efficient in quality control and development of products, we have our own well-equipped laboratory.

I.T.I. Poland Sp. z o.o. operates a Quality Management System which complies with the requirements of ISO 9001:2008 and an Environmental Management system which complies with the requirements of ISO 14001:2004 for design and production of milled, agglomerated and re-milled plastics.

We purchase regrinds, agglomerates and waste of plastic (e.g. big-bags, ropes, belts, buckets, bumpers). Waste collection is confirmed by the issue of documents attesting waste recovering and recycling (DPO, DPR). In accordance with the Waste Electrical and Electronic Equipment Act. - I.T.I. Poland Sp. z o.o. is a recycler with registration number: E0007742R.



Certificates:
ISO 9001 /
UNI EN ISO 9001:2008

Certificates:
ISO 14001 /
UNI EN ISO 14001:2004

DISTRIBUTION



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 **Production**

PROPERTY	UNIT	STANDARD		ITIPLEN IC M10 C10	ITIPLEN IC M10 C15	ITIPLEN IC M10 C20	ITIPLEN IC M10 C30	ITIPLEN IC M10 C40	ITIPLEN IC M10 C50
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21	1,33
MFI	g/10 min	ASTM D 1238	ISO 1133	10	10	10	10	10	10
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	50	45	40	40	35	35
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1200	1400	1500	1700	2000	2200
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-	-



> ITIPLEN IC M10 C10

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M10 C15

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M10 C20

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M10 C30

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M10 C40

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M10 C50

Polypropylene copolymer, injection moulding, with calcium carbonate filler

PROPERTY	UNIT	STANDARD		ITIPLEN IC M15 C10	ITIPLEN IC M15 C15	ITIPLEN IC M15 C20	ITIPLEN IC M15 C30	ITIPLEN IC M15 C40	ITIPLEN IC M15 C50
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21	1,33
MFI	g/10 min	ASTM D 1238	ISO 1133	15	15	15	15	15	15
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	50	45	40	40	35	35
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1200	1400	1500	1700	2000	2200
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-	-

Polypropylene Copolymer

> ITIPLEN IC M15 C10

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M15 C15

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M15 C20

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M15 C30

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M15 C40

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M15 C50

Polypropylene copolymer, injection moulding, with calcium carbonate filler

PROPERTY	UNIT	STANDARD		ITIPLEN IC M20 C10	ITIPLEN IC M20 C15	ITIPLEN IC M20 C20	ITIPLEN IC M20 C30	ITIPLEN IC M20 C40	ITIPLEN IC M20 C50
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21	1,33
MFI	g/10 min	ASTM D 1238	ISO 1133	20	20	20	20	20	20
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	50	45	40	40	35	35
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1200	1400	1500	1700	2000	2200
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-	-


> ITIPLEN IC M20 C10

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M20 C15

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M20 C20

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M20 C30

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M20 C40

Polypropylene copolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IC M20 C50

Polypropylene copolymer, injection moulding, with calcium carbonate filler

PROPERTY	UNIT	STANDARD		ITIPILEN IC M10 T10	ITIPILEN IC M10 T15	ITIPILEN IC M10 T20	ITIPILEN IC M10 T30	ITIPILEN IC M10 T40
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238	ISO 1133	10	10	10	10	10
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-
Filler content (talc)	%	ASTM D 2584	ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	40	40	40	35	35
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1400	1700	1900	2400	2800
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	75	78	83	85	85
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-



> **ITIPILEN IC M10 T10**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M10 T15**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M10 T20**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M10 T30**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M10 T40**
Polypropylene copolymer,
injection moulding, with
talc filler

PROPERTY	UNIT	STANDARD		ITIPILEN IC M15 T10	ITIPILEN IC M15 T15	ITIPILEN IC M15 T20	ITIPILEN IC M15 T30	ITIPILEN IC M15 T40
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238	ISO 1133	15	15	15	15	15
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-
Filler content (talc)	%	ASTM D 2584	ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	40	40	40	35	35
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1400	1700	1900	2400	2800
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	75	78	83	85	85
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-



> **ITIPILEN IC M15 T10**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M15 T15**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M15 T20**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M15 T30**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M15 T40**
Polypropylene copolymer,
injection moulding, with
talc filler

Itiplen IC T

PROPERTY	UNIT	STANDARD		ITIPILEN IC M20 T10	ITIPILEN IC M20 T15	ITIPILEN IC M20 T20	ITIPILEN IC M20 T30	ITIPILEN IC M20 T40
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238	ISO 1133	20	20	20	20	20
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-
Filler content (talc)	%	ASTM D 2584	ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	40	40	40	35	35
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1400	1700	1900	2400	2800
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	75	78	83	85	85
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-

Itiplen IC T Polypropylene Copolymer

> **ITIPILEN IC M20 T10**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M20 T15**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M20 T20**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M20 T30**
Polypropylene copolymer,
injection moulding, with
talc filler

> **ITIPILEN IC M20 T40**
Polypropylene copolymer,
injection moulding, with
talc filler

Itiplen IC BK

PROPERTY	UNIT	STANDARD		ITIPLen IC M10 BK	ITIPLen IC M20 BK	ITIPLen IC M10 Z50 BK
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,93	0,93	0,93
MFI	g/10 min	ASTM D 1238	ISO 1133	10	20	10
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-
Filler content	%	ASTM D 2584	ISO 3451	-	-	-
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	100-200	80-150	300
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1000	1100	900
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	60	65	57
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165
Flame behaviour	-	UL94		-	-	-

Itiplen IC BK Polypropylene Copolymer

> ITIPLen IC M10 BK

Polypropylene copolymer, injection moulding, black

> ITIPLen IC M20 BK

Polypropylene copolymer, injection moulding, black

> ITIPLen IC M10 Z50 BK

Polypropylene copolymer, injection moulding, black

PROPERTY	UNIT	STANDARD		ITIPLEN IH M10 C10	ITIPLEN IH M10 C15	ITIPLEN IH M10 C20	ITIPLEN IH M10 C30	ITIPLEN IH M10 C40	ITIPLEN IH M10 C50
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21	1,33
MFI	g/10 min	ASTM D 1238	ISO 1133	10	10	10	10	10	10
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	30	30	30	30	30	25
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1400	1600	1700	1900	2200	2400
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	80	83	85	90	90	93
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-	-


> ITIPLEN IH M10 C10

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M10 C15

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M10 C20

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M10 C30

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M10 C40

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M10 C50

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

PROPERTY	UNIT	STANDARD		ITIPLEN IH M15 C10	ITIPLEN IH M15 C15	ITIPLEN IH M15 C20	ITIPLEN IH M15 C30	ITIPLEN IH M15 C40	ITIPLEN IH M15 C50
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21	1,33
MFI	g/10 min	ASTM D 1238	ISO 1133	15	15	15	15	15	15
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	30	30	30	30	30	25
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1400	1600	1700	1900	2200	2400
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	80	83	85	90	90	93
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-	-

Polypropylene Homopolymer

> ITIPLEN IH M15 C10

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M15 C15

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M15 C20

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M15 C30

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M15 C40

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M15 C50

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

PROPERTY	UNIT	STANDARD		ITIPLEN IH M20 C10	ITIPLEN IH M20 C15	ITIPLEN IH M20 C20	ITIPLEN IH M20 C30	ITIPLEN IH M20 C40	ITIPLEN IH M20 C50
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21	1,33
MFI	g/10 min	ASTM D 1238	ISO 1133	20	20	20	20	20	20
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	30	30	30	30	30	25
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1400	1600	1700	1900	2200	2400
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	80	83	85	90	90	93
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-	-


> ITIPLEN IH M20 C10

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M20 C15

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M20 C20

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M20 C30

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M20 C40

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

> ITIPLEN IH M20 C50

Polypropylene homopolymer, injection moulding, with calcium carbonate filler

Itiplen IH T

PROPERTY	UNIT	STANDARD	ITIPLEN IH M10 T10	ITIPLEN IH M10 T15	ITIPLEN IH M10 T20	ITIPLEN IH M10 T30	ITIPLEN IH M10 T40
Density (23°C)	g/cm ³	ASTM D 792 ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238 ISO 1133	10	10	10	10	10
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584 ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256 ISO 180/1A	30	30	30	30	30
Izod impact (notch / 0°C)	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638 ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790 ISO 178	1600	1900	2200	2800	3300
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525 ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525 ISO 306	85	87	90	94	96
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94	-	-	-	-	-

Itiplen IH T Polypropylene Homopolymer

> ITIPLEN IH M10 T10

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPLEN IH M10 T15

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPLEN IH M10 T20

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPLEN IH M10 T30

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPLEN IH M10 T40

Polypropylene homopolymer, injection moulding, with calcium talc filler

Itiplen IH T

PROPERTY	UNIT	STANDARD		ITIPILEN IH M15 T10	ITIPILEN IH M15 T15	ITIPILEN IH M15 T20	ITIPILEN IH M15 T30	ITIPILEN IH M15 T40
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238	ISO 1133	15	15	15	15	15
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584	ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	30	30	30	30	30
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1600	1900	2200	2800	3300
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	85	87	90	94	96
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-	-

Itiplen IH T Polypropylene Homopolymer

> ITIPILEN IH M15 T10

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPILEN IH M15 T15

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPILEN IH M15 T20

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPILEN IH M15 T30

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPILEN IH M15 T40

Polypropylene homopolymer, injection moulding, with calcium talc filler

Itiplen IH T

PROPERTY	UNIT	STANDARD	ITIPLEN IH M20 T10	ITIPLEN IH M20 T15	ITIPLEN IH M20 T20	ITIPLEN IH M20 T30	ITIPLEN IH M20 T40
Density (23°C)	g/cm ³	ASTM D 792 ISO 1183	0,96	1,00	1,04	1,12	1,21
MFI	g/10 min	ASTM D 1238 ISO 1133	20	20	20	20	20
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content (calcium carbonate)	%	ASTM D 2584 ISO 3451	10	15	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	-	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256 ISO 180/1A	30	30	30	30	30
Izod impact (notch / 0°C)	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile yield strain	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638 ISO 527-2	-	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790 ISO 178	1600	1900	2200	2800	3300
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525 ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525 ISO 306	85	87	90	94	96
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
Flame behaviour	-	UL94	-	-	-	-	-

Itiplen IH T Polypropylene Homopolymer

> ITIPLEN IH M20 T10

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPLEN IH M20 T15

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPLEN IH M20 T20

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPLEN IH M20 T30

Polypropylene homopolymer, injection moulding, with calcium talc filler

> ITIPLEN IH M20 T40

Polypropylene homopolymer, injection moulding, with calcium talc filler

Itiplen IH BK

PROPERTY	UNIT	STANDARD		ITIPLEN IH M15 C10	ITIPLEN IH M15 C15	ITIPLEN IH M15 C20	ITIPLEN IH M15 C30
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,93	0,93	0,93	0,93
MFI	g/10 min	ASTM D 1238	ISO 1133	5	10	20	30
MFI condition	°C/kg	ASTM D 1238	ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-
Filler content	%	ASTM D 2584	ISO 3451	-	-	-	-
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	50-80	50-80	50-80	50-80
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	1100	1100	1200	1200
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	80	80	85	85
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	165	165	165	165
Flame behaviour	-	UL94		-	-	-	-

Itiplen IH BK Polypropylene Homopolymer

> ITIPLEN IH M15 C10

Polypropylene homopolymer,
injection moulding, black

> ITIPLEN IH M15 C15

Polypropylene homopolymer,
injection moulding, black

> ITIPLEN IH M15 C20

Polypropylene homopolymer,
injection moulding, black

> ITIPLEN IH M15 C30

Polypropylene homopolymer,
injection moulding, black

PROPERTY	UNIT	STANDARD		ITILEN HD F BK	ITILEN HD R BK	ITILEN HD Z BK	ITILEN HD N BK
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,94 - 0,96	0,94 - 0,96	0,94 - 0,96	0,94 - 0,96
MFI	g/10 min	ASTM D 1238	ISO 1133	0,6-2,0	0,6-2,0	5 - 10	5 - 10
MFI condition	°C/kg	ASTM D 1238	ISO 1133	190/2,16	190/2,16	190/2,16	190/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-	-
Filler content	%	ASTM D 2584	ISO 3451	-	-	-	-
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	-	-	-	-
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	-	-	-	-
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	130 - 135	130 - 135	130 - 135	130 - 135
Flame behaviour	-	UL94		-	-	-	-



> **ITILEN HD F BK**
High-density polyethylene (PEHD), film extrusion

> **ITILEN HD R BK**
High-density polyethylene (PEHD), pipe extrusion

> **ITILEN HD Z BK**
High-density polyethylene (PEHD), special purpose

> **ITILEN HD N BK**
High-density polyethylene (PEHD), injection moulding

PROPERTY	UNIT	STANDARD		ITILEN LD F BK	ITILEN LD R BK	ITILEN LD N BK
Density (23°C)	g/cm ³	ASTM D 792	ISO 1183	0,92 - 0,94	0,92 - 0,94	0,92 - 0,94
MFI	g/10 min	ASTM D 1238	ISO 1133	1,0-2,0	0,4-1,0	2,0-4,0
MFI condition	°C/kg	ASTM D 1238	ISO 1133	190/2,16	190/2,16	190/2,16
Shore	-	ASTM D 2240	ISO 868	-	-	-
Shore condition	A/D	ASTM D 2240	ISO 868	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570	ISO 62	-	-	-
Water absorption (saturation)	%	ASTM D 570	ISO 62	-	-	-
Filler content	%	ASTM D 2584	ISO 3451	-	-	-
Mould Shrinkage (parallel)	%	ASTM D 955	ISO 294-4	-	-	-
Izod impact (notch / 23°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-
Izod impact (notch / 0°C)	J/m	ASTM D 256	ISO 180/1A	-	-	-
Tensile yield strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-
Tensile yield strain	%	ASTM D 638	ISO 527-2	-	-	-
Tensile break strenght	N/mm ²	ASTM D 638	ISO 527-2	-	-	-
Elongation at break	%	ASTM D 638	ISO 527-2	-	-	-
Tensile modulus	N/mm ²	ASTM D 638	ISO 527-2	-	-	-
Flexural modulus	N/mm ²	ASTM D 790	ISO 178	-	-	-
HDT (0,455 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648	ISO 75-2	-	-	-
VICAT (10 N)	°C	ASTM D 1525	ISO 306	-	-	-
VICAT (50 N)	°C	ASTM D 1525	ISO 306	-	-	-
Melting temperature (DSC)	°C	ASTM D 3418	ISO 3146	115 - 120	115 - 120	115 - 120
Flame behaviour	-	UL94		-	-	-

Distribution

◆ Polypropylene

	PROPERTY	UNIT	STANDARD	MEPLEN EH C30	MEPLEN EH C40	MEPLEN EH C50	MEPLEN EH T20	MEPLEN EH T30
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,13	1,24	1,35	1,04	1,13
	MFI	g/10 min	ASTM D 1238 ISO 1133	10	10	10	10	10
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
	Shore	-	ASTM D 2240 ISO 868	75	75	76	75	76
	Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,02	0,02	0,02	0,02	0,02
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
	Filler content	%	ASTM D 2584 ISO 3451	30	40	50	20	30
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,9/1,1	0,9/1,1	0,9/1,1	0,9/1,1	0,9/1,1
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	30	30	25	35	30
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	20	20	15	30	25
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	25	22	18	35	30
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	50	45	40	30	20
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	2200	2800	3200	2400	3000
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	116	118	120	130	135
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	62	63	64	68	72
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	150	151	152	153	154
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	92	97	105	98	100
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR	Flame behaviour	-	UL94	-	-	-	-	-



> MEPLEN EH C30

Polypropylene homopolymer, calcium carbonate 30%. Very good surface finish, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> MEPLEN EH C40

Polypropylene homopolymer, calcium carbonate 40%. Very good surface finish, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> MEPLEN EH C50

Polypropylene homopolymer, calcium carbonate 50%. Very good surface finish, easy molding. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EH T20

Polypropylene homopolymer with talcum 20%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EH T30

Polypropylene homopolymer with talcum 30%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

◆ Polypropylene

PROPERTY	UNIT	STANDARD	MEPLEN EH T40	MEPLEN EH F20	MEPLEN EH F30	MEPLEN EH F40	MEPLEN EH F50
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,23	1,04	1,12	1,23	1,33
MFI	g/10 min	ASTM D 1238 ISO 1133	10	5	5	5	5
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	76	80	80	80	80
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,02	0,07	0,07	0,07	0,07
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content	%	ASTM D 2584 ISO 3451	40	20	30	40	50
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,9/1,1	0,3/0,6	0,2/0,4	0,2/0,4	0,1/0,3
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	25	70	100	100	105
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	20	55	80	80	85
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	28	70	80	85	95
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	20	5	5	4	3
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	3600	4000	5500	7000	8000
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	138	155	160	162	165
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	77	137	145	147	150
VICAT (10 N)	°C	ASTM D 1525 ISO 306	155	160	160	162	165
VICAT (50 N)	°C	ASTM D 1525 ISO 306	102	132	135	140	144
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR Flame behaviour	-	UL94	-	-	-	-	-

> MEPLEN EH T40

Polypropylene homopolymer with talcum 40%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: AS: antistatic.

> MEPLEN EH F20

Polypropylene homopolymer, glass fibre reinforced 20% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> MEPLEN EH F30

Polypropylene homopolymer, glass fibre reinforced 30% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> MEPLEN EH F40

Polypropylene homopolymer, glass fibre reinforced 40% chemical coupled. Very good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> MEPLEN EH F50

Polypropylene homopolymer, glass fibre reinforced 50% chemical coupled. Very good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

◆ Polypropylene

PROPERTY	UNIT	STANDARD	MEPLEN EH S30	MEPLEN EH S40	MEPLEN EH S50	MEPLEN EH SF 30	MEPLEN EH TF 30
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,12	1,23	1,35	1,12	1,12
MFI	g/10 min	ASTM D 1238 ISO 1133	10	10	10	5	8
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	74	75	76	73	74
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,07	0,07	0,07	-	-
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content	%	ASTM D 2584 ISO 3451	30	40	50	30	-
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,7/0,9	0,6/0,8	0,6/0,8	0,7/0,9	0,8/1,0
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	30	25	20	85	48
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	20	15	15	-	-
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	25	20	18	65	55
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	80	70	50	4	4
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	1800	2000	-	-	-
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	2000	2200	2800	3500	3900
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	118	120	125	155	-
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	58	60	66	128	-
VICAT (10 N)	°C	ASTM D 1525 ISO 306	151	154	155	160	162
VICAT (50 N)	°C	ASTM D 1525 ISO 306	91	96	102	115	120
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR Flame behaviour	-	UL94	-	-	-	-	-

> MEPLEN EH S30

Polypropylene homopolymer, glass beads filled 30%. Easy molding, very good surface finish. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLEN EH S40

Polypropylene homopolymer, glass beads filled 40%. Easy molding, very good surface finish. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLEN EH S50

Polypropylene homopolymer, glass beads filled 50%. Easy molding, very good surface finish. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLEN EH SF 30

Polypropylene homopolymer, fibre glass/glass beads reinforced 30% chemical coupled. Easy molding, good surface finish and mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLEN EH TF 30

Polypropylene homopolymer, fibre glass/talcum reinforced 30% chemical coupled. Easy molding, good surface finish and mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized.

◆ Polypropylene

PROPERTY	UNIT	STANDARD	MEPLEN EC T20	MEPLEN EC T30	MEPLEN EC T40	MEPLEN EC B25	MEPLEN EC B40
Density (23°C)	g/cm ³	ASTM D 792 ISO 1183	1,04	1,13	1,23	1,15	1,36
MFI	g/10 min	ASTM D 1238 ISO 1133	10	10	10	12	12
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	68	69	70	70	70
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,02	0,02	0,02	0,05	0,02
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content	%	ASTM D 2584 ISO 3451	20	30	40	25	40
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,9/1,1	0,9/1,1	0,9/1,1	0,9/1,1	0,9/1,1
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	50	50	45	40	38
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	40	40	35	30	25
Tensile yield strenght - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	25	27	30	20	22
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	50	30	25	40	30
Tensile modulus - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	-	-	-	-	-
Flexural modulus - dry/cond	N/mm ²	ASTM D 790 ISO 178	2000	2400	2800	1400	1700
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	120	130	135	-	-
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	60	60	60	55	-
VICAT (10 N)	°C	ASTM D 1525 ISO 306	148	150	152	-	-
VICAT (50 N)	°C	ASTM D 1525 ISO 306	80	82	85	80	90
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR Flame behaviour	-	UL94	-	-	-	-	-

> MEPLEN EC T20

Polypropylene copolymer with talcum 20%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EC T30

Polypropylene copolymer with talcum 30%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EC T40

Polypropylene copolymer with talcum 40%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EC B25

Polypropylene copolymer with BaSO₄ 25%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EC B40

Polypropylene copolymer with BaSO₄ 40%. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

◆ Polypropylene

PROPERTY	UNIT	STANDARD	MEPLEN EC F20	MEPLEN EC F30	MEPLEN EC F40	MEPLEN EC F50	MEPLEN EC S30
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,04	1,12	1,21	1,33	1,12
MFI	g/10 min	ASTM D 1238 ISO 1133	5	5	5	5	10
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	70	72	73	73	67
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,07	0,07	0,07	0,07	0,07
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content	%	ASTM D 2584 ISO 3451	20	30	40	50	30
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,3/0,6	0,2/0,4	0,2/0,4	0,1/0,3	0,7/0,9
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	120	130	140	145	35
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	95	105	110	120	25
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	62	70	75	85	19
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	10	10	8		>50
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	3300	4500	5700	9800	1500
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	150	155	157	157	110
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	132	140	142	142	50
VICAT (10 N)	°C	ASTM D 1525 ISO 306	154	155	156	156	148
VICAT (50 N)	°C	ASTM D 1525 ISO 306	115	120	125	125	80
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR Flame behaviour	-	UL94	-	-	-	-	-

> MEPLEN EC F20

Polypropylene copolymer, glass fibre reinforced 20% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> MEPLEN EC F30

Polypropylene copolymer, glass fibre reinforced 30% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> MEPLEN EC F40

Polypropylene copolymer, glass fibre reinforced 40% chemical coupled. Very good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> MEPLEN EC F50

Polypropylene copolymer, glass fibre reinforced 50% chemical coupled. Very good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> MEPLEN EC S30

Polypropylene copolymer, glass beads filled 30%. Easy molding, very good surface finish. Natural, all colours. H: heat stabilized, L: UV stabilized.

◆ Polypropylene

PROPERTY	UNIT	STANDARD	MEPLEN EC S40	MEPLEN EC S50	MEPLEN EH HTP20	MEPLEN EH HTP30	MEPLEN EH HTP40
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,22	1,35	1,04	1,13	1,24
MFI	g/10 min	ASTM D 1238 ISO 1133	10	10	10	10	10
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	68	70	76	76	76
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,07	0,07	0,02	0,02	0,02
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content	%	ASTM D 2584 ISO 3451	40	50	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,6/0,8	0,6/0,8	0,9/1,1	0,8/1,0	0,7/0,9
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	35	30	35	32	27
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	25	20	28	25	20
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	17	15	32	34	37
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	>50	>50	20	18	15
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	1800	2300	3800	5200	6000
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	115	120	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	54	58	76	80	90
VICAT (10 N)	°C	ASTM D 1525 ISO 306	149	150	-	-	-
VICAT (50 N)	°C	ASTM D 1525 ISO 306	88	95	108	110	113
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR Flame behaviour	-	UL94	-	-	-	-	-

> MEPLEN EC S40

Polypropylene copolymer, glass beads filled 40%. Easy molding, very good surface finish. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLEN EC S50

Polypropylene copolymer, glass beads filled 50%. Easy molding, very good surface finish. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLEN EH HTP20

Polypropylene homopolymer with talcum 20% high performances. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EH HTP30

Polypropylene homopolymer with talcum 30% high performances. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

> MEPLEN EH HTP40

Polypropylene homopolymer with talcum 40% high performances. Easy molding, good surface finish and technical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, AS: antistatic.

PROPERTY	UNIT	STANDARD	MEYTEL E6	MEYTEL E6 F30	MEYTEL E6 F40	MEYTEL E6 F50	MEYTEL E66
Density (23°C)	g/cm ³	ASTM D 792 ISO 1183	1,14	1,36	1,46	1,55	1,14
MFI	g/10 min	ASTM D 1238 ISO 1133	-	-	-	-	-
MFI condition	°C/kg	ASTM D 1238 ISO 1133	-	-	-	-	-
Shore	-	ASTM D 2240 ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	1,9	1,9	1,7	1,5	2,5
Water absorption (saturation)	%	ASTM D 570 ISO 62	9	6,3/6,9	5,4	4,5/5,1	9
Filler content	%	ASTM D 2584 ISO 3451	-	30	40	50	-
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,8/1	0,4	0,1	0,1	0,9
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	60/300	120/180	170/220	190/230	55/250
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	50	120	145	160	60
Tensile yield strenght - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	80/45	-	-	-	85/50
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	4,5	-	-	-	5
Tensile break strenght - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	-	175/115	200/130	220/160	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	100/200	3,8/8,5	2,7/4,5	2,6/3,5	60/120
Tensile modulus - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	3000/1100	9500/6200	12500/8700	16000/11000	3200/1200
Flexural modulus - dry/cond	N/mm ²	ASTM D 790 ISO 178	2800/1000	8600/5000	11000/7900	15000/9000	3100/1100
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	160	210	215	-	220
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	60	210	215	218	75
VICAT (10 N)	°C	ASTM D 1525 ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525 ISO 306	200	213	216	218	240
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	220	220	220	220	264
FR Flame behaviour	-	UL94	-	-	-	-	-

> MEYTEL E6

Polyamide 6 normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E6 F30

Polyamide 6 30% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E6 F40

Polyamide 6 40% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E6 F50

Polyamide 6 50% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E66

Polyamide 66 normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

PROPERTY	UNIT	STANDARD	MEYTEL E66 F30	MEYTEL E66 F40	MEYTEL E66 F50	MEPLAC ES 200	MEPLAC ES F17
Density (23°C)	g/cm ³	ASTM D 792 ISO 1183	1,36	1,46	1,56	1,04	1,18
MFI	g/10 min	ASTM D 1238 ISO 1133	-	-	-	23	8
MFI condition	°C/kg	ASTM D 1238 ISO 1133	-	-	-	220/10	220/10
Shore	-	ASTM D 2240 ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	2	1,5	1,2	0,3	0,2
Water absorption (saturation)	%	ASTM D 570 ISO 62	5,8	4,8	3	-	-
Filler content	%	ASTM D 2584 ISO 3451	30	40	50	-	17
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,25/1,1	0,1/0,4	0,1/0,3	0,4/0,6	0,2/0,3
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	115/155	140/200	150/210	170	65
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	90	120	130	100	40
Tensile yield strenght - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	-	-	-	45	-
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	190/130	210/180	235/190	-	75
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	2,9 / 5	2,4 / 3,5	2,2/3	20	2
Tensile modulus - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	10000/7200	14000/10000	16500/11500	-	5600
Flexural modulus - dry/cond	N/mm ²	ASTM D 790 ISO 178	8600/7000	12000/9500	15500/10000	2350	5200
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	245	250	255	96	-
VICAT (10 N)	°C	ASTM D 1525 ISO 306	-	-	-	99	110
VICAT (50 N)	°C	ASTM D 1525 ISO 306	245	250	255	96	103
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	264	264	264	-	-
FR Flame behaviour	-	UL94	-	-	-	-	-

> MEYTEL E66 F30

Polyamide 66 30% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E66 F40

Polyamide 66 40% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E66 F50

Polyamide 66 50% glass fibres reinforced. Normal viscosity, nucleated, lubricated, general purpose. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEPLAC ES 200

ABS injection moulding grade. High flow, high impact, good gloss. Natural, all colours.

> MEPLAC ES F17

ABS injection moulding grade 17% glass fibres reinforced. Natural, all colours.

PROPERTY	UNIT	STANDARD	MEBLEND ES 45	MEBLEND ES 65	MEBLEND ES 85	MEBLEND ES 85 V0R
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,12	1,13	1,14	1,23
MFI	g/10 min	ASTM D 1238 ISO 1133	15	15	15	15
MFI condition	°C/kg	ASTM D 1238 ISO 1133	260/5	260/5	260/5	260/5
Shore	-	ASTM D 2240 ISO 868	-	-	-	-
Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,25	0,25	0,25	-
Water absorption (saturation)	%	ASTM D 570 ISO 62	0,6	0,6	0,6	-
Filler content	%	ASTM D 2584 ISO 3451	-	-	-	-
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,6	0,6	0,6	0,6
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	450	500	550	500
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	350	400	450	-
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	45	50	55	-
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	40	50	55	-
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	2200	2300	2300	2300
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	2200	2300	2300	2300
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-	-
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	100	110	115	-
VICAT (10 N)	°C	ASTM D 1525 ISO 306	120	130	135	135
VICAT (50 N)	°C	ASTM D 1525 ISO 306	114	122	130	-
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	-	-	-	-
FR Flame behaviour	-	UL94	-	-	-	V0

> MEBLEND ES 45

PC/ABS blend standard grade. General porpouse. Easy moulding and good technical properties. Natural, all colours.

> MEBLEND ES 65

PC/ABS blend medium impact. General porpouse. Easy moulding and good technical properties. Natural, all colours.

> MEBLEND ES 85

PC/ABS blend high impact. General porpouse. Easy moulding and good technical properties. Natural, all colours.

> MEBLEND ES 85 V0R

PC/ABS blend high impact resistance for electrical applications. Flame retarded V0 rated. Glow Wire Test = 960 °C. Good thermal properties (Ball pressure test = 125 °C). All colours.



♦♦ Polypropylene

PROPERTY	UNIT	STANDARD	ECO MEPLEN IC M10 BK	ECO MEPLEN IC M20 BK	ECO MEPLEN IH C20	ECO MEPLEN IH C30	ECO MEPLEN IH C40
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	0,94	0,94	1,04	1,13	1,23
MFI	g/10 min	ASTM D 1238 ISO 1133	10	20	10	10	10
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	66	68	70	72	72
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,02	0,02	0,02	0,02	0,02
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content	%	ASTM D 2584 ISO 3451	-	-	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	-	-	1,4/1,8	1,2/1,6	1,1/1,5
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	100	80	30	30	30
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	20	22	25	23	20
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	40	40	40	30	20
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	1100	1150	1900	2200	2800
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	1000	1100	1800	2100	2700
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	95	100	110	112	115
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	58	60	61
VICAT (10 N)	°C	ASTM D 1525 ISO 306	145	150	146	148	150
VICAT (50 N)	°C	ASTM D 1525 ISO 306	60	70	85	90	95
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR Flame behaviour	-	UL94	-	-	-	-	-



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> **ECO MEPLEN IC M10 BK**
Polypropylene copolymer injection moulding, medium flow, general porpouse.

> **ECO MEPLEN IC M20 BK**
Polypropylene copolymer injection moulding, easy flow, general porpouse.

> **ECO MEPLEN IH C20**
Polypropylene homopolymer, calcium carbonate 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> **ECO MEPLEN IH C30**
Polypropylene homopolymer, calcium carbonate 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> **ECO MEPLEN IH C40**
Polypropylene homopolymer, calcium carbonate 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

◆ Polypropylene

PROPERTY	UNIT	STANDARD	ECO MEPLEN IH T20	ECO MEPLEN IH T30	ECO MEPLEN IH T40	ECO MEPLEN IH F30	ECO MEPLEN IH F40
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,04	1,13	1,25	1,12	1,21
MFI	g/10 min	ASTM D 1238 ISO 1133	10	10	10	9	9
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	74	75	76	78	78
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,02	0,02	0,02	0,07	0,07
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content	%	ASTM D 2584 ISO 3451	20	30	40	30	40
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	1,1/1,5	0,9/1,3	0,7/1,1	0,1/0,4	0,1/0,3
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	30	30	25	80	80
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	30	28	26	78	80
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	20	20	20	5	3
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	2300	2900	3400	5600	7000
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	2200	2800	3300	4500	5500
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	120	125	130	155	157
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	65	70	75	140	145
VICAT (10 N)	°C	ASTM D 1525 ISO 306	150	150	150	158	158
VICAT (50 N)	°C	ASTM D 1525 ISO 306	90	90	105	130	130
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR Flame behaviour	-	UL94	-	-	-	-	-

> ECO MEPLEN IH T20

Polypropylene homopolymer, talc 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IH T30

Polypropylene homopolymer, talc 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IH T40

Polypropylene homopolymer, talc 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IH F30

Polypropylene homopolymer, glass fibre reinforced 30% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> ECO MEPLEN IH F40

Polypropylene homopolymer, glass fibre reinforced 40% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.



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◆ Polypropylene

PROPERTY	UNIT	STANDARD	ECO MEPLEN IH F50	ECO MEPLEN IH S30	ECO MEPLEN IC C20	ECO MEPLEN IC C30	ECO MEPLEN IC C40
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,33	1,12	1,05	1,12	1,23
MFI	g/10 min	ASTM D 1238 ISO 1133	9	10	10	10	10
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	78	74	70	72	72
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,07	-	-	-	-
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content	%	ASTM D 2584 ISO 3451	50	30	20	30	40
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,1/0,3	0,8/1,0	1,4/1,8	1,2/1,6	1,1/1,5
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	75	25	40	40	35
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	82	20	24	22	19
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	3	50	45	35	25
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	9800	2100	1800	2100	2600
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	9000	1800	1600	1900	2400
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	162	115	100	102	105
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	145	55	56	58	59
VICAT (10 N)	°C	ASTM D 1525 ISO 306	162	148	140	145	148
VICAT (50 N)	°C	ASTM D 1525 ISO 306	142	88	80	85	90
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR Flame behaviour	-	UL94	-	-	-	-	-

PHYSICAL

MECHANICAL

THERMAL

FR



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> ECO MEPLEN IH F50

Polypropylene homopolymer, glass fibre reinforced 50% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> ECO MEPLEN IH S30

Polypropylene homopolymer, glass beads filled 30%. Easy molding. Natural, all colours. H: heat stabilized, L: UV stabilized.

> ECO MEPLEN IC C20

Polypropylene copolymer, calcium carbonate 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IC C30

Polypropylene copolymer, calcium carbonate 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IC C40

Polypropylene copolymer, calcium carbonate 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

◆ Polypropylene

PROPERTY	UNIT	STANDARD	ECO MEPLEN IC T20	ECO MEPLEN IC T30	ECO MEPLEN IC T40	ECO MEPLEN IC F30	ECO MEPLEN IC F40
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,04	1,13	1,21	1,12	1,21
MFI	g/10 min	ASTM D 1238 ISO 1133	10	10	10	9	9
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
Shore	-	ASTM D 2240 ISO 868	74	75	76	76	76
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	-	-	-	-	-
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
Filler content	%	ASTM D 2584 ISO 3451	20	30	40	30	40
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	1,1/1,5	0,9/1,3	0,7/1,1	0,1/0,4	0,1/0,3
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	40	40	35	85	85
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	28	26	24	70	75
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	40	30	20	10	6
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	2200	2800	3200	5200	6100
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	2000	2600	3000	4200	5200
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	115	120	125	150	152
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	62	67	72	130	135
VICAT (10 N)	°C	ASTM D 1525 ISO 306	145	147	150	142	145
VICAT (50 N)	°C	ASTM D 1525 ISO 306	85	90	95	120	125
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR Flame behaviour	-	UL94	-	-	-	-	-

> ECO MEPLEN IC T20

Polypropylene copolymer, talc 20%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IC T30

Polypropylene copolymer, talc 30%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IC T40

Polypropylene copolymer, talc 40%, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic.

> ECO MEPLEN IC F30

Polypropylene copolymer, glass fibre reinforced 30% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> ECO MEPLEN IC F40

Polypropylene copolymer, glass fibre reinforced 40% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.



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◆ Polypropylene

PROPERTY	UNIT	STANDARD	ECO MEPLEN IC F50	ECO MEPLEN IC S30	ECO MEYTEL I6 BK	ECO MEYTEL I6 F20 BK	ECO MEYTEL I6 F30 BK
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,33	1,12	1,13	1,28	1,36
MFI	g/10 min	ASTM D 1238 ISO 1133	9	10	-	-	-
MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	-	-	-
Shore	-	ASTM D 2240 ISO 868	76	74	-	-	-
Shore condition	A/D	ASTM D 2240 ISO 868	D	D	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	-	-	1,9	2,3	1,9
Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	9	7,2	6,3
Filler content	%	ASTM D 2584 ISO 3451	50	30	-	20	30
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,1/0,3	0,8/1,0	1,3/1,7	0,35	0,2
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	80	35	40/200	60/80	70/80
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	30	40	50
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	80	19	55	-	-
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	4	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	95/75	120/90
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	4	60	80/150	5/10	4/8
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	11000	1800	2400/1100	6000/4500	7500/5800
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	8600	1600	2200/1000	4800/3500	6200/5500
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	157	110	150	200	208
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	140	50	50	195	205
VICAT (10 N)	°C	ASTM D 1525 ISO 306	155	143	-	-	-
VICAT (50 N)	°C	ASTM D 1525 ISO 306	135	83	190	205	210
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	220	220	220
FR Flame behaviour	-	UL94	-	-	-	-	-



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> ECO MEPLEN IC F50

Polypropylene copolymer, glass fibre reinforced 50% chemical coupled. Good mechanical properties. Natural, all colours. H: heat stabilized, L: UV stabilized, D: detergent stabilization.

> ECO MEPLEN IC S30

Polypropylene copolymer, glass beads filled 30%. Easy molding. Natural, all colours. H: heat stabilized, L: UV stabilized.

> ECO MEYTEL I6 BK

Polyamide 6 general purpose. Black.

> ECO MEYTEL I6 F20 BK

Polyamide 6 glass fibre reinforced 20%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I6 F30 BK

Polyamide 6 glass fibre reinforced 30%. General purpose, black. H: heat stabilized.

◆ Polyamide

PROPERTY	UNIT	STANDARD	ECO MEYTEL I6 F40 BK	ECO MEYTEL I6 F50 BK	ECO MEYTEL I66 BK	ECO MEYTEL I66 F20 BK	ECO MEYTEL I66 F30 BK	
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,46	1,55	1,13	1,28	1,36
	MFI	g/10 min	ASTM D 1238 ISO 1133	-	-	-	-	-
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	-	-	-	-	-
	Shore	-	ASTM D 2240 ISO 868	-	-	-	-	-
	Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-	-	-
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	1,7	1,5	2,5	2,2	2
	Water absorption (saturation)	%	ASTM D 570 ISO 62	5,2	4,5	8	6,7	6,1
	Filler content	%	ASTM D 2584 ISO 3451	40	50	-	20	30
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,2	0,1	0,8	0,6	0,5
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	110/160	130/180	45/200	55/75	65/75
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	90	110	40	35	45
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	65	-	-
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	4	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	180/150	210/180	-	105/85	130/100
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	3/6	2/4	40/80	2,9/7	2,5/4
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	10500/7000	15000/12000	2800/1200	6300/4800	7800/6100
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	9000/6200	13000/8500	2700/1100	5000/3800	6500/5800
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	213	215	218	250	250
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	210	212	70	240	245
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	-	-	-	-	-
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	212	214	235	240	242
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	220	220	260	260	260
FR	Flame behaviour	-	UL94	-	-	-	-	-



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> ECO MEYTEL I6 F40 BK

Polyamide 6 glass fibre reinforced 40%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I6 F50 BK

Polyamide 6 glass fibre reinforced 50%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I66 BK

Polyamide 66 general purpose. Black.

> ECO MEYTEL I66 F20 BK

Polyamide 66 glass fibre reinforced 20%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I66 F30 BK

Polyamide 66 glass fibre reinforced 30%. General purpose, black. H: heat stabilized.

♦♦ Polyamide

PROPERTY	UNIT	STANDARD	ECO MEYTEL I66 F40 BK	ECO MEYTEL I66 F50 BK	ECO MEYTEL I18 F15 BK	ECO MEYTEL I18 F20 BK	ECO MEYTEL I18 F30 BK
Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,46	1,57	1,25	1,28	1,36
MFI	g/10 min	ASTM D 1238 ISO 1133	-	-	-	-	-
MFI condition	°C/kg	ASTM D 1238 ISO 1133	-	-	-	-	-
Shore	-	ASTM D 2240 ISO 868	-	-	-	-	-
Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-	-	-
Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	1,5	1,2	2,4	2,3	2,1
Water absorption (saturation)	%	ASTM D 570 ISO 62	5	4	7	7	6,5
Filler content	%	ASTM D 2584 ISO 3451	40	50	15	20	30
Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,4	0,2	0,5	0,5	0,4
Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	75/90	90/120	50/70	55/75	65/75
Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	85	100	35	37	48
Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	190/160	220/190	95/75	100/80	125/95
Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	2/3,5	2	4/8	4/6	3/4
Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	10800/7300	15300/12300	5000/4000	6100/4600	7600/5900
Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	9300/6500	13300/8800	4000/3000	4900/3600	6300/5600
HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	250	250	225	225	225
HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	250	255	210	220	225
VICAT (10 N)	°C	ASTM D 1525 ISO 306	-	-	-	-	-
VICAT (50 N)	°C	ASTM D 1525 ISO 306	244	245	215	225	228
Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	260	260	260	260	260
FR Flame behaviour	-	UL94	-	-	-	-	-

> ECO MEYTEL I66 F40 BK

Polyamide 66 glass fibre reinforced 40%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I66 F50 BK

Polyamide 66 glass fibre reinforced 50%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I18 F15 BK

Polyamide copolymer glass fibre reinforced 15%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I18 F20 BK

Polyamide copolymer glass fibre reinforced 20%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I18 F30 BK

Polyamide copolymer glass fibre reinforced 30%. General purpose, black. H: heat stabilized.



ECO compounds are made utilizing 30% of recycled polymers at least. These products are certified by IPPR institute and are identified with "Plastica Seconda Vita" brand.



◆ Polyamide

◆ Polystyrene

PROPERTY	UNIT	STANDARD	ECO MEYTEL I18 F40 BK	ECO MEYTEL I18 F50 BK	ECO MEPRON IS Z70 BK	ECO MEPRON IS Z90 BK	
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,46	1,55	1,05	1,05
	MFI	g/10 min	ASTM D 1238 ISO 1133	-	-	7	7
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	-	-	200/5	200/5
	Shore	-	ASTM D 2240 ISO 868	-	-	75	75
	Shore condition	A/D	ASTM D 2240 ISO 868	-	-	D	D
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	1,6	1,4	-	-
	Water absorption (saturation)	%	ASTM D 570 ISO 62	5,1	4,5	-	-
	Filler content	%	ASTM D 2584 ISO 3451	40	50	-	-
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,3	1,15	0,3/0,7	0,3/0,7
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	80/100	100/130	70	90
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	87	105	-	-
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	21	25
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	185/155	215/185	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	2,55	2	20	35
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	10600/7200	15100/12100	1500	2100
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	9100/6300	13100/8600	1700	2300
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	227	230	-	-
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	230	235	78	74
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	-	-	-	-
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	235	240	85	82
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	260	260	-	-
FR	Flame behaviour	-	UL94	-	-	-	-



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> ECO MEYTEL I18 F40 BK

Polyamide copolymer glass fibre reinforced 40%. General purpose, black. H: heat stabilized.

> ECO MEYTEL I18 F50 BK

Polyamide copolymer glass fibre reinforced 50%. General purpose, black. H: heat stabilized.

> ECO MEPRON IS Z70

Polystyrene standard impact modified for injection moulding. General purpose. Natural, all colour.

> ECO MEPRON IS Z90

Polystyrene standard high impact for injection moulding. General purpose. Natural, all colour.

PROPERTY	UNIT	STANDARD	ECO MEPLAC IS 110 BK	ECO MEPLAC IS 140 BK	ECO MEPLAC IS 200 BK	
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,05	1,04	1,05
	MFI	g/10 min	ASTM D 1238 ISO 1133	10	12	15
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	220/10	220/10	220/10
	Shore	-	ASTM D 2240 ISO 868	75	75	75
	Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	-	-	-
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-
	Filler content	%	ASTM D 2584 ISO 3451	-	-	-
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,5/0,7	0,5/0,7	0,5/0,7
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	120	140	200
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	100
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	35	40	45
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	10	20	30
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	2500	2400	2100
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	2200	2100	1900
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	85	84	82
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	100	100	-
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	92	92	90
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	-	-	-
FR	Flame behaviour	-	UL94	-	-	

PROPERTY	UNIT	STANDARD	ECO MEBLEND IT 45 BK	ECO MEBLEND IT 65 BK	ECO MEBLEND IT 85 BK	
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,12	1,13	1,14
	MFI	g/10 min	ASTM D 1238 ISO 1133	15	15	15
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	260/5	260/5	260/5
	Shore	-	ASTM D 2240 ISO 868	-	-	-
	Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,25	0,25	0,25
	Water absorption (saturation)	%	ASTM D 570 ISO 62	0,6	0,6	0,6
	Filler content	%	ASTM D 2584 ISO 3451	-	-	-
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,6	0,6	0,6
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	300	450	500
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	200	350	400
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	42	46	50
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	30	50	60
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	2200	2300	2400
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	2200	2300	2400
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	100	110	115
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	120	130	135
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	114	118	126
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	-	-	-
FR	Flame behaviour	-	UL94	-	-	



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> ECO MEBLEND IT 45 BK

PC/ABS blend standard grade. General purpose. Easy moulding and good technical properties. Black.

> ECO MEBLEND IT 65 BK

PC/ABS blend medium impact. General purpose. Easy moulding and good technical properties. Black.

> ECO MEBLEND IT 85 BK

PC/ABS blend high impact. General purpose. Easy moulding and good technical properties. Black.



◆◆ Polypropylene

	PROPERTY	UNIT	STANDARD	MEPLEN EH T10 V2	MEPLEN EH T20 V2	MEPLEN EH T30 V2	MEPLEN EH S30 V2R	MEPLEN EC T10 V2
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	0,99	1,05	1,13	1,25	0,98
	MFI	g/10 min	ASTM D 1238 ISO 1133	12	12	12	10	12
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
	Shore	-	ASTM D 2240 ISO 868	75	75	76	75	75
	Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,02	0,02	0,02	0,07	0,02
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
	Filler content	%	ASTM D 2584 ISO 3451	10	20	30	30	10
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,9/1,1	0,9/1,1	0,9/1,1	0,7/0,9	0,9/1,1
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	35	35	30	25	60
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	30	30	25	-	50
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	35	35	30	22	25
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	30	30	20	65	50
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	1500	2400	3000	1800	1400
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	125	130	135	118	118
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	64	68	72	58	58
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	150	153	154	151	145
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	96	98	100	91	78
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR	Flame behaviour	-	UL94	V2	V2	V2	V2	V2

> MEPLEN EH T10 V2

Polypropylene homopolymer, talc 10%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded V2 rating.

> MEPLEN EH T20 V2

Polypropylene homopolymer, talc 20%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded V2 rating.

> MEPLEN EH T30 V2

Polypropylene homopolymer, talc 30%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded V2 rating.

> MEPLEN EH S30 V2R

Polypropylene homopolymer, glass beads filled 30%. Natural, all colours. H: heat stabilized, L: UV stabilized. Flame retarded ROHS compliant, V2 rating.

> MEPLEN EC T10 V2

Polypropylene copolymer, talc 10%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded V2 rating.

◆ Polypropylene

	PROPERTY	UNIT	STANDARD	MEPLEN EC T20 V2	MEPLEN EC T30 V2	MEPLEN EC S30 V2R	MEPLEN EH T10 V0	MEPLEN EH T20 V0
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,05	1,14	1,25	1,02	1,08
	MFI	g/10 min	ASTM D 1238 ISO 1133	12	12	10	10	10
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
	Shore	-	ASTM D 2240 ISO 868	75	76	75	75	75
	Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,02	0,02	0,07	0,02	0,02
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
	Filler content	%	ASTM D 2584 ISO 3451	20	30	30	10	20
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,9/1,1	0,9/1,1	0,7/0,9	0,7/0,9	0,7/0,9
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	50	50	35	35	35
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	40	40	-	30	30
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	25	27	19	35	35
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	50	30	>50	30	20
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	2300	2900	1500	1500	2400
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	120	130	110	125	130
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	60	60	52	64	68
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	148	150	148	150	153
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	80	82	80	96	98
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR	Flame behaviour	-	UL94	V2	V2	V2	V0	V0

> MEPLEN EC T20 V2
 Polypropylene copolymer, talc 20%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded V2 rating.

> MEPLEN EC T30 V2
 Polypropylene copolymer, talc 30%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded V2 rating.

> MEPLEN EC S30 V2R
 Polypropylene copolymer, glass beads filled 30%. Natural, all colours. H: heat stabilized, L: UV stabilized. Flame retarded ROHS compliant, V2 rating.

> MEPLEN EH T10 V0
 Polypropylene homopolymer, talc 10%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded V0 rating.

> MEPLEN EH T20 V0
 Polypropylene homopolymer, talc 20%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded V0 rating.

◆ Polypropylene

	PROPERTY	UNIT	STANDARD	MEPLEN EH T30 VO	MEPLEN EH M05 VOF	MEPLEN EC T10 VO	MEPLEN EC T20 VO	MEPLEN EC T30 VO
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,17	1,06	1,02	1,08	1,18
	MFI	g/10 min	ASTM D 1238 ISO 1133	10	5	10	10	10
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	230/2,16	230/2,16	230/2,16	230/2,16
	Shore	-	ASTM D 2240 ISO 868	76	75	75	75	76
	Shore condition	A/D	ASTM D 2240 ISO 868	D	D	D	D	D
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,02	0,02	0,02	0,02	0,02
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
	Filler content	%	ASTM D 2584 ISO 3451	30	10	10	20	30
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,7/0,9	0,7/0,9	0,7/0,9	0,7/0,9	0,7/0,9
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	30	35	55	45	45
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	25	25	45	35	35
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	30	25	23	23	24
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	20	20	40	40	25
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	-	-	-	-
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	3000	2200	1300	2200	2700
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	135	125	118	120	130
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	72	70	58	60	60
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	154	150	145	148	150
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	100	95	78	80	82
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	165	165	165	165	165
FR	Flame behaviour	-	UL94	VO	VO	VO	VO	VO

> MEPLEN EH T30 VO

Polypropylene homopolymer, talc 30%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded VO rating.

> MEPLEN EH M05 VOF

Polypropylene Homopolymer, Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded Halogen free VO rating (VO at 0,5 mm).

> MEPLEN EC T10 VO

Polypropylene copolymer, talc 10%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded VO rating.

> MEPLEN EC T20 VO

Polypropylene copolymer, talc 20%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded VO rating.

> MEPLEN EC T30 VO

Polypropylene copolymer, talc 30%. Very good surface finish,easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded VO rating.

◆◆ Polypropylene

◆◆ Polyamide

	PROPERTY	UNIT	STANDARD	MEPLEN EC M05 V0F	MEYTEL E6 V0F	MEYTEL E6 F30 V0F	MEYTEL E6 K30 BK	MEYTEL E6 YC
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,06	1,18	1,4	1,27	1,05
	MFI	g/10 min	ASTM D 1238 ISO 1133	10	-	-	-	-
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	230/2,16	-	-	-	-
	Shore	-	ASTM D 2240 ISO 868	75	-	-	-	-
	Shore condition	A/D	ASTM D 2240 ISO 868	D	-	-	-	-
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,02	1,9	1,9	1,9	1,5
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	9	6	6	6
	Filler content	%	ASTM D 2584 ISO 3451	10	-	30	30	-
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	0,7/0,9	0,8/1	0,3/0,4	0,1	1,3
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	55	50/85	55/85	60/90	800/1000
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	45	40	45	-	300
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	23	-	-	-	50/43
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	70/45	110/75	320/220	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	40	5/20	2,5/4	2	60/>100
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	3400/1300	10500/6200	22000	2200/900
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	1800	3100/1100	9500/6000	17000	1400/1000
	THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	118	195	210	-
HDT (1820 Mpa)		°C	ASTM D 648 ISO 75-2	58	70	195	-	48
VICAT (10 N)		°C	ASTM D 1525 ISO 306	145	-	205	-	-
VICAT (50 N)		°C	ASTM D 1525 ISO 306	78	200	215	-	-
Melting temperature (DSC)		°C	ASTM D 3418 ISO 3146	165	220	220	220	220
FR	Flame behaviour	-	UL94	V0	V0	V0	-	-

> MEPLEN EC M05 V0F

Polypropylene copolymer, Very good surface finish, easy molding. Natural, all colours. H: heat stabilize, L: UV stabilized, AS: antistatic. Flame retarded Halogen free V0 rating.

> MEYTEL E6 V0F

Polyamide 6 flame retarded V0 halogen free. Low density and low smoke emission. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E6 F30 V0F

Polyamide 6 30% glass fibres reinforced. Flame retarded V0 halogen free. Low density and low smoke emission. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E6 K30 BK

Polyamide 6 30% carbon fibres reinforced. H: heat stabilized, L: UV stabilized. Very high stiffness. Black.

> MEYTEL E6 YC

Polyamide 6 very high impact modified. High impact resistance at low temperature. Natural, all colours. H: heat stabilized, L: UV stabilized.

◆◆ Polyamide

	PROPERTY	UNIT	STANDARD	MEYTEL E66 VOF	MEYTEL E66 F30 VOF	MEYTEL E66 K30 BK	MEYTEL E66 YC
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,17	1,35	1,27	1,05
	MFI	g/10 min	ASTM D 1238 ISO 1133	-	-	-	-
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	-	-	-	-
	Shore	-	ASTM D 2240 ISO 868	-	-	-	-
	Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-	-
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	1,9	1,6	1,6	1,5
	Water absorption (saturation)	%	ASTM D 570 ISO 62	9	5/5,5	5/5,5	6
	Filler content	%	ASTM D 2584 ISO 3451	-	30	30	-
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	1,5	0,2	0,05/0,2	0,9
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	30/65	130/180	95/120	800/1000
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	25	-	60	300
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	62/50	-	-	50/43
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	200/160	330/240	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	3/18	2/5	1	60/>100
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	3500/1400	8000/6200	23000	1900/900
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	3200/1100	11300/8000	18000	1800/750
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	225	-	-	130
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	86	240	-	60
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	234	-	-	-
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	247	245	-	200
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	260	260	260	260
FR	Flame behaviour	-	UL94	-	-	-	-

> MEYTEL E66 VOF

Polyamide 66 flame retarded V0 halogen free. Low density and low smoke emission. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E66 F30 VOF

Polyamide 66 30% glass fibres reinforced. Flame retarded V0 halogen free. Low density and low smoke emission. Natural, all colours. H: heat stabilized, L: UV stabilized.

> MEYTEL E66 K30 BK

Polyamide 66 30% carbon fibres reinforced. H: heat stabilized, L: UV stabilized. Very high stiffness. Black.

> MEYTEL E66 YC

Polyamide 66 very high impact modified. High impact resistance at low temperature. Natural, all colours. H: heat stabilized, L: UV stabilized.

	PROPERTY	UNIT	STANDARD	MEYLOY 6H 31	MEYLOY 6H 31 F30	MEYLOY 66H 31	MEYLOY 66H 31 F30	MEYLOY 05 YC
PHYSICAL	Density (23°C)	g/cm3	ASTM D 792 ISO 1183	1,1	1,27	1,1	1,29	1,07
	MFI	g/10 min	ASTM D 1238 ISO 1133	-	-	-	-	-
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	-	-	-	-	-
	Shore	-	ASTM D 2240 ISO 868	77	-	77	-	-
	Shore condition	A/D	ASTM D 2240 ISO 868	D	-	D	-	-
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	0,8	0,3	0,8	0,3	-
	Water absorption (saturation)	%	ASTM D 570 ISO 62	1,8	< 1	2,9	<1	0,4
	Filler content	%	ASTM D 2584 ISO 3451	-	30	-	30	-
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	-	0,5	-	0,5	0,8
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	200	80/110	170	150/200	500/600
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	100/120
	Tensile yield strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	35	-	51	-	45/35
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	140/120	-	180/140	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	>100	4	>100	4	4
	Tensile modulus - dry/cond	N/mm2	ASTM D 638 ISO 527-2	-	9100/6500	-	9500/8800	2000/1500
	Flexural modulus - dry/cond	N/mm2	ASTM D 790 ISO 178	1300	6600/4800	2100	7500/6000	2200/1800
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	193	160	245	80
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	45	162	80	225	60
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	204	169	225	-	-
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	97	210	165	215	100
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	220	260	260	260	220
FR	Flame behaviour	-	UL94	-	-	-	-	-

> MEYLOY 6H 31

PA/PP alloy. Low water absorption. Good mechanical performances. Natural, all colour.

> MEYLOY 6H 31 F30

PA/PP alloy 30% glass fibres. Low water absorption. Good mechanical performances. Natural, all colour.

> MEYLOY 66H 31

PA/PP alloy. Low water absorption. Good mechanical performances. Natural, all colour.

> MEYLOY 66H 31 F30

PA/PP alloy 30% glass fibres. Low water absorption. Good mechanical performances. Natural, all colour.

> MEYLOY 05 YC

PA/ABS alloy. High impact. High chemical resistance, paintability, dimensional stability. Low water absorption. Good mechanical performances. Natural, all colour.

 **Bio Compound**



Mepla

GREEN HEART

Mepla® is the biobased and biodegradable thermoplastic compound produced by Mepol.



BIOBASED

Raw materials come from natural resources.



BIODEGRADABLE

Capable of being decomposed by biological agents, especially bacteria.

	PROPERTY	UNIT	STANDARD	MEPLA IM 01	MEPLA IM 01	MEPLA EX 01	MEPLA EX 02	MEPLA FE
PHYSICAL	Density (23°C)	g/cm ³	ASTM D 792 ISO 1183	1,26	1,26	1,26	1,55	1,6
	MFI	g/10 min	ASTM D 1238 ISO 1133	10	10	3	3	2 -- 5
	MFI condition	°C/kg	ASTM D 1238 ISO 1133	190/2,16	190/2,16	190/2,16	190/2,16	190/2,16
	Shore	-	ASTM D 2240 ISO 868	-	-	-	-	-
	Shore condition	A/D	ASTM D 2240 ISO 868	-	-	-	-	-
	Water absorption (24h/23°C)	%	ASTM D 570 ISO 62	-	-	-	-	-
	Water absorption (saturation)	%	ASTM D 570 ISO 62	-	-	-	-	-
	Filler content	%	ASTM D 2584 ISO 3451	0	0	0	35	40
	Mould Shrinkage (parallel)	%	ASTM D 955 ISO 294-4	-	-	-	-	-
MECHANICAL	Izod impact (notch / 23°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	120	250	120	50	NB
	Izod impact (notch / 0°C) - dry/cond	J/m	ASTM D 256 ISO 180/1A	-	-	-	-	-
	Tensile yield strenght - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	38	32	38	35	15
	Tensile yield strain - dry/cond	%	ASTM D 638 ISO 527-2	-	-	-	-	-
	Tensile break strenght - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	-	-	-	-	-
	Elongation at break - dry/cond	%	ASTM D 638 ISO 527-2	70	150	70	15	>500
	Tensile modulus - dry/cond	N/mm ²	ASTM D 638 ISO 527-2	2500	2200	2500	3500	700
	Flexural modulus - dry/cond	N/mm ²	ASTM D 790 ISO 178	2200	1900	2200	3000	600
THERMAL	HDT (0,455 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-	-	-
	HDT (1820 Mpa)	°C	ASTM D 648 ISO 75-2	-	-	-	-	-
	VICAT (10 N)	°C	ASTM D 1525 ISO 306	60	60	60	110	-
	VICAT (50 N)	°C	ASTM D 1525 ISO 306	55	55	55	70	-
	Melting temperature (DSC)	°C	ASTM D 3418 ISO 3146	>150	>150	>150	>140	>140
FR	Flame behaviour	-	UL94	-	-	-	-	-

> **MEPLA IM 01 PLA**
Compostable compound for injection moulding application good rigidity.

> **MEPLA IM 01 PLA**
Compostable compound for injection moulding application good impact.

> **MEPLA EX 01 PLA**
Compostable compound for extrusion application.

> **MEPLA EX 02 PLA**
Compostable compound 35% mineral filled for extrusion/thermoforming application. High termical properties.

> **MEPLA EX 02**
Compostable compound 40% mineral filled for film application.

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