

 **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/cm3	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/mm2	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/mm2	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/mm2	ASTM D 638 ISO 527-2	2500	2200	2500	3500	700
	Flexural modulus - dry/cond	N/mm2	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.