

RavaBio[®] 72 T 10 I

Bio based compound

Description:

RavaBIO 72 T 10 I is a mineral filled, bio polyester compound, developed for injection moulding applications for the packaging industry. Excellent surface and properties.

RavaBIO 72 T 10 I is considered as compostable compound, 100% bio-based.

General

MFI (210°C/2,16kg)	ISO 1133	45	g/10min
Density	ISO 1183	1,37	g/cm ³

Thermal

HDT/A (1,82MPa)	ISO 75A	50	°C
HDT/B (0,46MPa)	ISO 75B	55	°C
Vicat softening point (B50 (50N))	ISO 306	60	°C
Vicat softening point (A120 (10N))	ISO 306	115	°C

Mechanical

Izod notched impact strength (23 °C)	ISO 180	5	kJ/m ²
Charpy notched impact strength (23 °C)	ISO 179	5	kJ/m ²
Tensile strength at yield (23 °C)	ISO 527	50	MPa
Tensile strength at break (23 °C)	ISO 527	35	MPa
Elongation at yield (23 °C)	ISO 527	2,5	%
Elongation at break (23 °C)	ISO 527	10	%
Tensile modulus (23 °C)	ISO 527	3900	MPa
Flexural modulus (23 °C)	ISO 178	4000	MPa

Various

Ash content (600 °C)	ISO 3451	20	%
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Remark:

Processing guideline:

It is a bio polyester compound, highly hygroscopic. Before processing it needs to be pre-dried, preferably with a dehumidification process, 4-6 hours at 45-60 °C.

Cylinder temperatures 140 °C to 180 °C due to high flow characteristic. Melt temperature preferably not higher than 200 °C. Desirable 185 °C. Mould temperature, 30 to 60 °C.