

Unitika TERRAMAC TP-4030 Polylactic Acid (PLA)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polylactic Acid (PLA) Biopolymer

Material Notes:

Soft, Extrusion, blow, and foam sheet grade. Bio-based materials produced from annually renewable raw materials. Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-TERRAMAC-TP-4030-Polylactic-Acid-PLA.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Melt Flow	3.0 - 5.0 g/10 min @Load 2.16 kg, Temperature 190 °C	3.0 - 5.0 g/10 min @Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527
Elongation at Break	44 %	44 %	ISO 527
Flexural Strength	71.0 MPa	10300 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Charpy Impact, Notched	0.260 J/cm ²	1.24 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	170 °C	338 °F	
Maximum Service Temperature, Air	240 °C	464 °F	
Deflection Temperature at 0.46 MPa (66 psi)	52.0 °C	126 °F	ISO 75

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	150 - 180 °C	302 - 356 °F	
Middle Barrel Temperature	160 - 200 °C	320 - 392 °F	
Front Barrel Temperature	160 - 200 °C	320 - 392 °F	
Nozzle Temperature	150 - 180 °C	302 - 356 °F	

Descriptive Properties	Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China