

Unitika TERRAMAC TE-1070 Polylactic Acid (PLA)

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

Material Notes:

High-Impact grade, Injection 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-TE-1070-Polylactic-Acid-PLA.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.0 MPa	4930 psi	ISO 527
Elongation at Break	>= 200 %	>= 200 %	ISO 527
Flexural Strength	50.0 MPa	7250 psi	ISO 178
Flexural Modulus	1.40 GPa	203 ksi	ISO 178
Charpy Impact, Notched	0.560 J/cm ²	2.66 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)	54.0 °C	129 °F	ISO 75

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	130 - 170 °C	266 - 338 °F	
Middle Barrel Temperature	180 - 220 °C	356 - 428 °F	
Front Barrel Temperature	180 - 220 °C	356 - 428 °F	
Nozzle Temperature	180 - 220 °C	356 - 428 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	actual surface temp
Back Pressure	0.490 - 1.47 MPa	71.1 - 213 psi	gage pressure

Descriptive Properties	Value	Comments
Appearance	Opaque white	

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