

Unitika TERRAMAC TE-8300 Polylactic Acid (PLA)

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

Material Notes:

High-durability, 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-8300-Polylactic-Acid-PLA.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	ISO 527
Elongation at Break	1.0 %	1.0 %	ISO 527
Flexural Strength	104 MPa	15100 psi	ISO 178
Flexural Modulus	9.30 GPa	1350 ksi	ISO 178
Charpy Impact, Notched	0.280 J/cm ²	1.33 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)	140 °C	284 °F	ISO 75

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	150 - 170 °C	302 - 338 °F	
Middle Barrel Temperature	180 - 200 °C	356 - 392 °F	
Front Barrel Temperature	190 - 210 °C	374 - 410 °F	
Nozzle Temperature	190 - 210 °C	374 - 410 °F	
Mold Temperature	100 - 110 °C	212 - 230 °F	actual surface temp
Back Pressure	0.490 - 1.47 MPa	71.1 - 213 psi	gage pressure

Descriptive Properties	Value	Comments
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Descriptive Properties	Value ie white	Comments
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