

Tempia Polylactic acid (PLA) Resin

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

Material Notes:

A bio-degradable plastic, Polylactic acid (PLA) is made from corn. Products produced are compostable within 45 – 120 days. The degradation process of the item is temperature, humidity and thickness dependent. PLA's good rigidity allows them to be a possible replacement for Polystyrene, ABS & PET. High heat resistance. Low taste transfer. High Gloss. Oil resistant. Common Applications include: Cups, Disposable Goods, Packaging, Packaging, Food, Automotive Interiors, Medical, Bags, Bottles. Food Service Applications. Information provided by Plastic Service Center.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tempia-Polylactic-acid-PLA-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	
Water Absorption	0.13 %	0.13 %	
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	
Melt Flow	5.8 - 20 g/10 min	5.8 - 20 g/10 min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	154 °C	310 °F	
Middle Barrel Temperature	171 - 193 °C	340 - 380 °F	
Front Barrel Temperature	179 - 204 °C	355 - 400 °F	
Nozzle Temperature	171 - 206 °C	340 - 402 °F	
Melt Temperature	199 - 201 °C	390 - 393 °F	
Mold Temperature	23.9 - 25.2 °C	75.0 - 77.3 °F	
Drying Temperature	100 °C	212 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.010 - 0.025 %	0.010 - 0.025 %	

Descriptive Properties	Value	Comments
CAS Number	9051-889-2	

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