

NatureWorks® Ingeo™ AW 240D Biopolymer for Food Serviceware

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

Material Notes:

NatureWorks® PLA polymer AW 240D is a thermoplastic resin derived from annually renewable resources. PLA polymer 2003D processes easily on conventional extrusion equipment. Specifically designed for use in food service ware applications. Ingeo AW 240D is an opaque, off-white extrusion grade that is fully formulated to be used naturally, but may be blended with color compounds. Extruded roll stock is thermoformable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NatureWorks-Ingeo-AW-240D-Biopolymer-for-Food-Serviceware.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 210 °C	6.0 g/10 min @Load 4.76 lb, Temperature 410 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.65 GPa	239 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	ASTM D648

Processing Properties	Metric	English	Comments
Feed Temperature	170 °C	338 °F	
Adapter Temperature	185 °C	365 °F	
Die Temperature	185 °C	365 °F	
Melt Temperature	185 °C	365 °F	
Drying Temperature	50.0 °C @Time 14400 sec	122 °F @Time 4.00 hour	
Moisture Content	<= 0.025 %	<= 0.025 %	
Dew Point	-40.0 °C	-40.0 °F	
Drying Air Flow Rate	>= 14.2 l/min	>= 0.500 ft³/min (CFM)	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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