

NatureWorks® Ingeo™ AW 300D Injection Grade Biopolymer

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

Material Notes:

Specifically designed for use in injection molded food serviceware applications. This opaque, off-white molding grade creates parts that are rigid and heat resistant for tableware used with hot foods and drinks when injection molded using conventional chilled molds. Ingeo AW 300D is fully formulated to be used naturally, but may be blended with color compounds. Information provided by NatureWorks LLC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NatureWorks-Ingeo-AW-300D-Injection-Grade-Biopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Linear Mold Shrinkage	0.003 - 0.006 cm/cm	0.003 - 0.006 in/in	
Melt Flow	27 g/10 min @Load 2.16 kg, Temperature 210 °C	27 g/10 min @Load 4.76 lb, Temperature 410 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.450 GPa	355.3 ksi	ASTM D790
Izod Impact, Notched	0.330 J/cm	0.618 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	170 °C	338 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	50.0 °C	122 °F	ASTM D648

Processing Properties	Metric	English	Comments
Feed Temperature	175 - 185 °C	347 - 365 °F	
Nozzle Temperature	190 - 210 °C	374 - 410 °F	
Mold Temperature	25.0 °C	77.0 °F	
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Screw Speed	100 - 200 rpm	100 - 200 rpm	

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