

NatureWorks® Ingeo™ 7032D Stretch Blow Molding/Bottle Grade PLA

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

Material Notes:

NatureWorks® PLA polymer 7032D is a bottles grade resin designed for injection stretch blow molded applications where heat setting is needed. PLA polymer 7032D can be run on conventional ISBM equipment. 7032D is typically run at lower processing temperatures than bottle grade PET. Applications: Injection Stretch Blow Molded Bottles for 1:2 stage operations. Ideal for applications where heat setting is required such as Fruit juices, Sports drinks, Jams and Jellies

Order this product through the following link:

http://www.lookpolymers.com/polymer_NatureWorks-Ingeo-7032D-Stretch-Blow-MoldingBottle-Grade-PLA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Melt Density	1.08 - 1.12 g/cc @Temperature 230 °C	0.0390 - 0.0405 lb/in ³ @Temperature 446 °F	ASTM D1238
Linear Mold Shrinkage	0.003 - 0.005 cm/cm	0.003 - 0.005 in/in	
Melt Flow	5.0 - 15 g/10 min @Load 2.16 kg, Temperature 210 °C	5.0 - 15 g/10 min @Load 4.76 lb, Temperature 410 °F	ASTM D1238

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	ASTM D3418
Glass Transition Temp, Tg	55.0 - 60.0 °C	131 - 140 °F	ASTM D3417

Processing Properties	Metric	English	Comments
Feed Temperature	180 °C	356 °F	
Nozzle Temperature	210 - 220 °C	410 - 428 °F	
Melt Temperature	200 - 220 °C	392 - 428 °F	
Mold Temperature	21.0 - 38.0 °C	69.8 - 100 °F	
Back Pressure	0.689 - 1.38 MPa	100 - 200 psi	

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