

NatureWorks® Ingeo™ 7001D ISBM Bottle Grade Biopolymer

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

Material Notes:

Ingeo biopolymer 7001D is a thermoplastic resin derived from annually renewable resources and is specifically designed for use in injection stretch blow molded (ISBM) bottle applications. Ingeo biopolymer 7001D can be run using conventional ISBM equipment, but processes at lower temperatures than PET and can attain good resolution of mold detail on conventional tooling.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NatureWorks-Ingeo-7001D-ISBM-Bottle-Grade-Biopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D1505
Moisture Vapor Transmission	13.8 - 15.7 cc-mm/m ² -24hr-atm	35.1 - 39.9 cc-mil/100 in ² -24hr-atm	ASTM F1249
Oxygen Transmission	25.6 - 27.6 cc-mm/m ² -24hr-atm	65.0 - 70.1 cc-mil/100 in ² -24hr-atm	ASTM D3985
Carbon Dioxide Transmission	106 - 118 cc-mm/m ² -24hr-atm	269 - 300 cc-mil/100 in ² -24hr-atm	NatureWorks test
Viscosity Measurement	4.0 @Temperature 30.0 °C	4.0 @Temperature 86.0 °F	Relative viscosity; 1.0 g/dl chloroform
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	

Thermal Properties	Metric	English	Comments
Melting Point	145 - 160 °C	293 - 320 °F	ASTM D3418
Glass Transition Temp, Tg	55.0 - 60.0 °C	131 - 140 °F	ASTM D3418

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	Transparent; thickness not specified

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