

NatureWorks® Ingeo™ 6302D Fiber Grade PLA

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

Material Notes:

NatureWorks® PLA polymer 6302D is an amorphous thermoplastic fiber-grade resin derived primarily from annually renewable resources. Available in pellet form, 6302D is designed for extrusion into mechanically drawn staple fibers using conventional fiber spinning and drawing equipment. NatureWorks® PLA 6302D can be used as a low melt binder polymer in a sheath-core configuration. Potential applications for PLA polymer 6302D include Thermal bonded nonwovens

Order this product through the following link:

http://www.lookpolymers.com/polymer_NatureWorks-Ingeo-6302D-Fiber-Grade-PLA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Melt Density	1.08 g/cc @Temperature 230 °C	0.0390 lb/in ³ @Temperature 446 °F	ASTM D1238
Viscosity Measurement	3.0	3.0	Relative Viscosity; CD Internal Viscotek Method
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 210 °C	20 g/10 min @Load 4.76 lb, Temperature 410 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Elongation at Break	50 %	50 %	Fiber; ASTM D2256/ASTM D3822
Tenacity	0.309 N/tex	3.50 g/denier	ASTM D2256/ASTM D3822

Thermal Properties	Metric	English	Comments
Melting Point	125 - 135 °C	257 - 275 °F	ASTM D3418
Glass Transition Temp, Tg	55.0 - 60.0 °C	131 - 140 °F	ASTM D3417
Shrinkage	2.0 % @Temperature 85.0 °C, Time 900 sec	2.0 % @Temperature 185 °F, Time 0.250 hour	Hot Air

Processing Properties	Metric	English	Comments
Dew Point	-35.0 °C	-31.0 °F	
Drying Air Flow Rate	>= 14.2 l/min	>= 0.500 ft ³ /min (CFM)	

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