

NatureWorks® Ingeo™ 6752D Spunbond Grade Biopolymer

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

Material Notes:

Sheath polymer for spunbound uses. NatureWorks® PLA polymer 6752D, a NatureWorks LLC product, is a thermoplastic fiber-grade resin de-rived from annually renewable resources. Available in pellet form, 6752D is designed for extrusion into mechanically drawn staple fibers using conventional fiber spinning and drawing equipment.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NatureWorks-Ingeo-6752D-Spunbond-Grade-Biopolymer.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/in³ @Temperature 446 °F	ASTM D1238
Viscosity Measurement	3.3	3.3	Relative Viscosity; CD Internal Viscotek Method
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 210 °C	15 g/10 min @Load 4.76 lb, Temperature 410 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Elongation at Break	10 - 70 %	10 - 70 %	Fiber; ASTM D2256/ASTM D3822
Tenacity	0.221 - 0.353 N/tex	2.50 - 4.00 g/denier	ASTM D2256/ASTM D3822

Thermal Properties	Metric	English	Comments
Melting Point	150 - 160 °C	302 - 320 °F	ASTM D3418
Glass Transition Temp, Tg	55.0 - 60.0 °C	131 - 140 °F	ASTM D3417
Shrinkage	<= 8.0 % @Temperature 120 °C, Time 600 sec	<= 8.0 % @Temperature 248 °F, Time 0.167 hour	Hot Air; ASTM D2102

Processing Properties	Metric	English	Comments
Drying Temperature	80.0 - 100 °C	176 - 212 °F	
Dew Point	-35.0 °C	-31.0 °F	
Drying Air Flow Rate	>= 14.2 l/min	>= 0.500 ft³/min (CFM)	

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