

NatureWorks® Ingeo™ 6251D Fiber Grade PLA

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

Material Notes:

NatureWorks® PLA polymer 6251D is a thermoplastic fiber-grade resin derived primarily from annually renewable resources. Available in pellet form, 6251D is designed for spunbond products using conventional spunbond equipment. NatureWorks® PLA 6251 can be converted into a broad range of fiber products. Applications: Wipes; Geotextiles; Hospital garments; Absorbent pad liners; Personal hygiene products; Agriculture/horticultural products

Order this product through the following link:

http://www.lookpolymers.com/polymer_NatureWorks-Ingeo-6251D-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	2.5	2.5	Relative Viscosity; CD Internal Viscotek Method
Melt Flow	70 - 85 g/10 min @Load 2.16 kg, Temperature 210 °C	70 - 85 g/10 min @Load 4.76 lb, Temperature 410 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Elongation at Break	17 - 24 %	17 - 24 %	Fiber CD; ASTM D5035
	21 - 26 %	21 - 26 %	Fiber MD; ASTM D5035

Thermal Properties	Metric	English	Comments
Melting Point	160 - 170 °C	320 - 338 °F	ASTM D3418
Glass Transition Temp, Tg	55.0 - 60.0 °C	131 - 140 °F	ASTM D3417
Shrinkage	0.20 - 1.0 % @Temperature 60.0 °C	0.20 - 1.0 % @Temperature 140 °F	Air, CD; ASTM D2259
	0.30 - 1.0 % @Temperature 60.0 °C	0.30 - 1.0 % @Temperature 140 °F	Air, MD; ASTM D2259
	1.1 - 3.1 % @Temperature 60.0 °C	1.1 - 3.1 % @Temperature 140 °F	Water, CD; ASTM D2259
	>= 2.5 %	>= 2.5 %	Water, MD; ASTM D2259

Thermal Properties	@Temperature 60.0 °C Metric	@Temperature 140 °F English	Comments
Processing Properties	Metric	English	Comments
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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