PolyOne Nanoblend™ LST 5501 Polypropylene, Unspecified (PP, Unspecified)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Nanoblend compounds, formerly known as Maxxam LST, are LIGHT, STIFF AND TOUGH. Using nanoclay technology, these compounds deliver a combination of high stiffness and impact resistance to meet demanding structural and durability requirements. At the same time, they offer the light weight, aesthetic and processing advantages that are more typical of polyolefins.Provisional Product Information - Physical and Mechanical properties based on initial production.Information provided by PolyOne

Order this product through the following link:
http://www.lookpolymers.com/polymer_PolyOne-Nanoblend-LST-5501-Polypropylene-Unspecified-PP-Unspecified.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.948 g/cc	0.948 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	39.4 MPa	5710 psi	Type I, 51 mm/min; ASTM D638
Elongation at Yield	5.5 %	5.5 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	3.36 GPa	487 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	63.6 MPa	9220 psi	ASTM D790
Flexural Modulus	2.69 GPa	390 ksi	ASTM D790
Izod Impact, Notched	0.270 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.506 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 µm/m-°C	25.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	100 °C @Thickness 3.18 mm	212 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	57.0 °C @Thickness 3.18 mm	135 °F @Thickness 0.125 in	Unannealed; ASTM D648

Descriptive Properties	Value	Comments
Filler / Reinforcement	Clay Nano Filler	
Forms	Pellets	
Generic Material	PP, Unspecified	

Descriptive Properties	Value	Comments
Generic Name	Polypropylene, Unspecified (PP, Unspecified)	
Regional Availability	North America	
	South America	

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