E-Polymers SEPAZ® N5020HI Nanoclay 4%, 30% Glass Fiber Reinforced High Impact Nano Composite Resin

Category : Polymer , Thermoplastic

Material Notes:

Nanocomposite: SEPAZ Nano PA6 nanocomposites have been prepared successfully in commercial scale through 'in situ' polymerization or melt extrusion. The unique performance properties of nanocomposities provide a great flexibility in materials design. Nanocomposites have been formulated into various resin systems to deliver desired properties: from rheology control to fire retardation. It shows low specific gravity, gas permeability and high heat resistance, rigidity, dimension stability used for underhood and fuel line parts in automotive industry and for packaging film in food industry.Information Provided by E-Polymers Co., Ltd.

Order this product through the following link:
http://www.lookpolymers.com/polymer_E-Polymers-SEPAZ-N5020HI-Nanoclay-4-30-Glass-Fiber-Reinforced-High-Impact-Nano-Composite-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Water Absorption	0.80 % @Time 86400 sec	0.80 % @Time 24.0 hour	
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	122.6 MPa	17790 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	182.47 MPa	26465 psi	ASTM D790
Flexural Modulus	7.201 GPa	1044 ksi	ASTM D790
Izod Impact, Notched	1.08 J/cm	2.02 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °F	ASTM D648
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Melt Temperature	220 °C	428 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	

Processing Properties	Metric	English	Comments

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