E-Polymers SEPAZ® N2020L Nanoclay 2% High flow 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-N2020L-Nanoclay-2-High-flow-Nano-Composite-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	102.0 MPa	14800 psi	ASTM D638
Elongation at Break	34 %	34 %	ASTM D638
Flexural Strength	144.21 MPa	20916 psi	ASTM D790
Flexural Modulus	3.928 GPa	569.7 ksi	ASTM D790
Izod Impact, Notched	0.304 J/cm	0.569 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	130 °C	266 °F	ASTM D648
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Melt Temperature	226 °C	439 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	

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