

E-Polymers SEPAZ® N6030FR 30% Glass Fiber Reinforced Flame Retardant 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 nanocomposites 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-N6030FR-30-Glass-Fiber-Reinforced-Flame-Retardant-Nano-Composite-Resin.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---------------------------|---------------------------|-----------|
| Specific Gravity | 1.47 g/cc | 1.47 g/cc | ASTM D792 |
| Water Absorption | 0.70 % @Time 86400 sec | 0.70 % @Time 24.0 hour | |
| Linear Mold Shrinkage | 0.0060 cm/cm | 0.0060 in/in | |
| Linear Mold Shrinkage, Transverse | 0.0080 cm/cm | 0.0080 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|------------|---------------|-----------|
| Tensile Strength | 144.2 MPa | 20920 psi | ASTM D638 |
| Elongation at Break | 30 % | 30 % | ASTM D638 |
| Flexural Strength | 209.93 MPa | 30448 psi | ASTM D790 |
| Flexural Modulus | 11.2 GPa | 1620 ksi | ASTM D790 |
| Izod Impact, Notched | 1.10 J/cm | 2.06 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 205 °C | 401 °F | ASTM D648 |
| Flammability, UL94 | V-0 | V-0 | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|--------------|----------|
| Melt Temperature | 228 °C | 442 °F | |
| Mold Temperature | 70.0 - 90.0 °C | 158 - 194 °F | |

Processing Properties

Metric

English

Comments

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