

Fiberfil® J-61/20/E Polypropylene Copolymer, 20% Glass Fiber Reinforced, Chemically coupled

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Information provided by FIBERFIL Engineered Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Fiberfil-J-6120E-Polypropylene-Copolymer-20-Glass-Fiber-Reinforced-Chemically-coupled.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|--------------------------------|
| Specific Gravity | 1.03 g/cc | 1.03 g/cc | ASTM D792 |
| Water Absorption | 0.020 % | 0.020 % | 24 hr; ASTM D570 |
| Linear Mold Shrinkage | 0.0020 - 0.0030 cm/cm | 0.0020 - 0.0030 in/in | ASTM D955 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |
| | 0.0030 - 0.0040 cm/cm | 0.0030 - 0.0040 in/in | ASTM D955 |
| | @Thickness 6.35 mm | @Thickness 0.250 in | |
| Melt Flow | 8.0 g/10 min | 8.0 g/10 min | 230/2.16 (typical); ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------------|---------------------|--------------------|
| Hardness, Rockwell R | 90 | 90 | ASTM D785 |
| Tensile Strength, Yield | 48.3 MPa | 7000 psi | ASTM D638 |
| Elongation at Yield | 4.0 % | 4.0 % | ASTM D638 |
| Tensile Modulus | 3.24 GPa | 470 ksi | ASTM D638 |
| Flexural Strength | 65.5 MPa | 9500 psi | ASTM D790 |
| Flexural Modulus | 3.10 GPa | 450 ksi | Tangent; ASTM D790 |
| Izod Impact, Notched | 0.961 J/cm | 1.80 ft-lb/in | ASTM D256 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 141 Å°C | 285 Å°F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 135 Å°C | 275 Å°F | ASTM D648 |

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