

Fiberfil® J-60/20 Polypropylene Homopolymer, 20% Glass Reinforced

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-6020-Polypropylene-Homopolymer-20-Glass-Reinforced.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------------|---------------------|--------------------------------|
| Specific Gravity | 1.04 g/cc | 1.04 g/cc | ASTM D792 |
| Water Absorption | 0.030 % | 0.030 % | 24 hr; ASTM D570 |
| Linear Mold Shrinkage | 0.0030 cm/cm | 0.0030 in/in | ASTM D955 |
| | @Thickness 3.17 mm | @Thickness 0.125 in | |
| | 0.0040 cm/cm | 0.0040 in/in | ASTM D955 |
| | @Thickness 6.35 mm | @Thickness 0.250 in | |
| Melt Flow | 7.0 g/10 min | 7.0 g/10 min | 230/2.16 (typical); ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--------------------|---------------------|--------------------|
| Hardness, Rockwell R | 100 - 110 | 100 - 110 | ASTM D785 |
| Tensile Strength, Yield | 58.6 MPa | 8500 psi | ASTM D638 |
| Elongation at Yield | 3.5 % | 3.5 % | ASTM D638 |
| Tensile Modulus | 4.14 GPa | 600 ksi | ASTM D638 |
| Flexural Strength | 93.1 MPa | 13500 psi | ASTM D790 |
| Flexural Modulus | 3.79 GPa | 550 ksi | Tangent; ASTM D790 |
| Izod Impact, Notched | 0.534 J/cm | 1.00 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) | 154 Å°C | 310 Å°F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 146 Å°C | 295 Å°F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-------------------------|---------------|---------------|----------|
| Rear Barrel Temperature | 199 - 210 Å°C | 390 - 410 Å°F | |

| Processing Properties | Metric | English | Comments |
|---------------------------|-------------------|-----------------|------------------------------|
| Middle Barrel Temperature | 204 - 227 Â°C | 400 - 440 Â°F | |
| Front Barrel Temperature | 182 - 199 Â°C | 360 - 390 Â°F | |
| Nozzle Temperature | 182 - 193 Â°C | 360 - 380 Â°F | |
| Melt Temperature | 199 - 232 Â°C | 390 - 450 Â°F | |
| Mold Temperature | 32.2 - 71.1 Â°C | 90.0 - 160 Â°F | |
| Drying Temperature | 76.7 Â°C | 170 Â°F | Drying not normally required |
| Dry Time | 2 hour | 2 hour | Drying not normally required |
| Moisture Content | <= 0.20 % | <= 0.20 % | recommended for molding |
| Back Pressure | 0.000 - 0.689 MPa | 0.000 - 100 psi | |

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