

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

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-60GB20-Polypropylene-Homopolymer-20-Glass-beads.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Water Absorption	0.010 %	0.010 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0090 - 0.011 cm/cm @Thickness 6.35 mm	0.0090 - 0.011 in/in @Thickness 0.250 in	ASTM D955
Melt Flow	9.0 - 12 g/10 min	9.0 - 12 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	29.0 MPa	4200 psi	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Tensile Modulus	1.55 GPa	225 ksi	ASTM D638
Flexural Strength	37.9 MPa	5500 psi	ASTM D790
Flexural Modulus	1.50 GPa	218 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.427 J/cm @Thickness 3.17 mm	0.800 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	105 Â°C	221 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	79.4 Â°C	175 Â°F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	193 - 210 Â°C	380 - 410 Â°F	
Middle Barrel Temperature	204 - 221 Â°C	400 - 430 Â°F	

Front Barrel Temperature Processing Properties	199 - 216 Â°C Metric	390 - 420 Â°F English	Comments
Nozzle Temperature	204 - 221 Â°C	400 - 430 Â°F	
Melt Temperature	204 - 227 Â°C	400 - 440 Â°F	
Mold Temperature	26.7 - 54.4 Â°C	80.0 - 130 Â°F	
Drying Temperature	71.1 Â°C	160 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	0.172 - 0.345 MPa	25.0 - 50.0 psi	

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