FiberfilÂ® J-60/20/H Polypropylene Homopolymer, 20% Glass 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-6020H-Polypropylene-Homopolymer-20-Glass-Reinforced-Chemically-coupled.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 @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955
	0.0040 cm/cm @Thickness 6.35 mm	0.0040 in/in @Thickness 0.250 in	ASTM D955
Melt Flow	5.0 g/10 min	5.0 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	68.9 MPa	10000 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	0.641 J/cm @Thickness 3.17 mm	1.20 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	157 Â°C	315 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 Â°C	300 Â°F	ASTM D648

Processing Properties	Metric	English	Comments

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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