

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

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-6020FR-Polypropylene-Homopolymer-20-Glass-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Water Absorption	0.020 %	0.020 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Thickness 6.35 mm	@Thickness 0.250 in	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
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	72.4 MPa	10500 psi	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Tensile Modulus	6.21 GPa	900 ksi	ASTM D638
Flexural Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	5.52 GPa	800 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.801 J/cm	1.50 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)	149 Å°C	300 Å°F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	199 - 210 Â°C	390 - 410 Â°F	
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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