

Fiberfil® J-69/40/E High performance polypropylene Homopolymer, 40% 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-6940E-High-performance-polypropylene-Homopolymer-40-Glass-Reinforced-Chemically-coupled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Water Absorption	0.030 %	0.030 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Thickness 6.35 mm	@Thickness 0.250 in	
Melt Flow	6.0 g/10 min	6.0 g/10 min	230/2.16 (typical); ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105 - 110	105 - 110	ASTM D785
Tensile Strength, Yield	114 MPa	16500 psi	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Tensile Modulus	8.62 GPa	1250 ksi	ASTM D638
Flexural Strength	148 MPa	21400 psi	ASTM D790
Flexural Modulus	7.93 GPa	1150 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)	160 Â°C	320 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	154 Â°C	310 Â°F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	204 - 221 Â°C	400 - 430 Â°F	
Middle Barrel Temperature	216 - 232 Â°C	420 - 450 Â°F	
Front Barrel Temperature	204 - 227 Â°C	400 - 440 Â°F	
Nozzle Temperature	204 - 221 Â°C	400 - 430 Â°F	
Melt Temperature	210 - 232 Â°C	410 - 450 Â°F	
Mold Temperature	37.8 - 65.6 Â°C	100 - 150 Â°F	
Back Pressure	0.172 - 0.345 MPa	25.0 - 50.0 psi	

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