

Fiberfil® M-1812 Polypropylene Homopolymer, 45% Talc Filled

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-M-1812-Polypropylene-Homopolymer-45-Talc-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Water Absorption	0.030 %	0.030 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Thickness 6.35 mm	@Thickness 0.250 in	
Melt Flow	20 g/10 min	20 g/10 min	230/2.16 (typical); ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95 - 100	95 - 100	ASTM D785
Tensile Strength, Yield	31.0 MPa	4500 psi	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ASTM D638
Tensile Modulus	4.65 GPa	675 ksi	ASTM D638
Flexural Strength	53.1 MPa	7700 psi	ASTM D790
Flexural Modulus	4.48 GPa	650 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.267 J/cm	0.500 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)	146 Å°C	295 Å°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	116 Å°C	240 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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