

Fiberfil® M-1812

Polypropylene Homopolymer

Fiberfil® Engineered Plastics Inc.

Message:

Fiberfil® M-1812 is a polypropylene homopolymer (PP Homopoly) material, and its filler is 45% talc filler. This product is available in North America. Fiberfil® The main characteristics of the M-1812 are: homopolymer.

General Information			
Filler / Reinforcement	Talc filler, 45% filler by weight		
Features	Homopolymer		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow			ASTM D955
3.18 mm	0.50 - 0.70	%	ASTM D955
6.35 mm	0.70 - 0.90	%	ASTM D955
Water Absorption (24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95 - 100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4650	MPa	ASTM D638
Tensile Strength (23°C)	31.0	MPa	ASTM D638
Tensile Elongation (Yield, 23°C)	9.0	%	ASTM D638
Flexural Modulus - Tangent (23°C)	4480	MPa	ASTM D790
Flexural Strength (23°C)	53.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	146	°C	ASTM D648
1.8 MPa, not annealed	116	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	76.7	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	199 - 210	°C	
Middle Temperature	204 - 227	°C	
Front Temperature	182 - 199	°C	
Nozzle Temperature	182 - 193	°C	

Processing (Melt) Temp	199 - 232	°C
Mold Temperature	32.2 - 71.1	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.00 - 0.689	MPa

Injection instructions

Screw speed: Medium to Fast

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