

HiFill® PBT GF15

Polybutylene Terephthalate

Techmer Engineered Solutions

Message:

HiFill® PBT GF15 is a Polybutylene Terephthalate (PBT) product filled with 15% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	93.1	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	4830	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	191	°C	ASTM D648
CLTE - Flow	3.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	19	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	232 to 274	°C	
Middle Temperature	232 to 274	°C	
Front Temperature	232 to 274	°C	
Processing (Melt) Temp	232 to 246	°C	

Mold Temperature	65.6 to 82.2	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm

NOTE

1. Method A (Short-Time)

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Recommended distributors for this material

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