

HiFill® PBT G/CF30 IM

Polybutylene Terephthalate

Techmer Engineered Solutions

Message:

HiFill® PBT G/CF30 IM is a Polybutylene Terephthalate (PBT) product filled with 15% glass\carbon fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Impact Modified

Impact Resistant

General Information			
Filler / Reinforcement	Glass\Carbon Fiber,15% Filler by Weight		
Additive	Impact Modifier		
Features	High Impact Resistance		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	141	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648
CLTE - Flow	1.6E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	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

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