

HiFill® PC / PBT GF 30 BK

Polycarbonate + PBT

Techmer Engineered Solutions

Message:

HiFill® PC / PBT GF 30 BK is a Polycarbonate + PBT (PC+PBT) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E253782-101773916		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	107	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength	183	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	210	°C	
1.8 MPa, Unannealed	173	°C	
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	98.9	°C	
Drying Time	4.0	hr	
Rear Temperature	238 to 266	°C	
Middle Temperature	238 to 266	°C	

Front Temperature	238 to 266	°C
Processing (Melt) Temp	238 to 266	°C
Mold Temperature	54.4 to 93.3	°C
Back Pressure	0.172 to 0.414	MPa
Screw Speed	30 to 60	rpm

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Recommended distributors for this material

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