

HiFill® PET GF30

Polyethylene Terephthalate
Techmer Engineered Solutions

Message:

HiFill® PET GF30 is a Polyethylene Terephthalate (PET) product filled with 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		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	155	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790
Flexural Strength	234	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	100	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	960	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	243	°C	
1.8 MPa, Unannealed	221	°C	
Melting Temperature	244	°C	
CLTE - Flow	1.1E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.57 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	271 to 288	°C	
Middle Temperature	271 to 288	°C	
Front Temperature	271 to 288	°C	
Processing (Melt) Temp	274	°C	
Mold Temperature	93.3 to 110	°C	
Back Pressure	0.345 to 0.689	MPa	

Screw Speed

30 to 60

rpm

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Recommended distributors for this material

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