

HiFill® PBT GF33 IM

Polybutylene Terephthalate
Techmer Engineered Solutions

Message:

HiFill® PBT GF33 IM is a Polybutylene Terephthalate (PBT) product filled with 33% glass 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 Fiber,33% Filler by Weight		
Additive	Impact Modifier		
Features	High Impact Resistance		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	117	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	224	°C	
1.8 MPa, Unannealed	206	°C	
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94

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