HiFill FR® PP GF10 FR BK

Polypropylene

Techmer Engineered Solutions

Message:

HiFill FR® PP GF10 FR BK is a Polypropylene product filled with 10% glass fiber. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
Flame Retardant

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Flame Retardant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.45	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	34.5	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	4140	MPa	ASTM D790
Flexural Strength	41.4	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	35	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	240	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	152	°C	
1.8 MPa, Unannealed	138	°C	
CLTE - Flow	3.8E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength [1]	20	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94
NOTE			

1.   Method A (Short-Time)

Recommended distributors for this material   Page 2

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