

HiFill FR® ABS GF10 FR

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

Message:

HiFill FR® ABS GF10 FR is an Acrylonitrile Butadiene Styrene (ABS) 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			
UL YellowCard	E253782-101773871		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Flame Retardant		
UL File Number	E157318		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.16	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	56.5	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	4310	MPa	ASTM D790
Flexural Strength	77.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	102	°C	
1.8 MPa, Unannealed	96.1	°C	
CLTE - Flow	4.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	19	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	71.1 to 82.2	°C
Drying Time	2.0 to 16	hr
Rear Temperature	210 to 227	°C
Middle Temperature	216 to 232	°C
Front Temperature	204 to 216	°C
Nozzle Temperature	193 to 216	°C
Processing (Melt) Temp	227 to 254	°C
Mold Temperature	65.6 to 82.2	°C

NOTE

1.
- Method A (Short-Time)

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