

HiFill FR® PBT FR-C

Polybutylene Terephthalate
Techmer Engineered Solutions

Message:

HiFill FR® PBT FR-C is a Polybutylene Terephthalate (PBT) product. It can be processed by injection molding and is available in North America. Characteristics include:
Flame Rated
Flame Retardant

General Information			
UL YellowCard	E253782-101773895		
Features	Flame Retardant		
UL File Number	E157318		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	51.0	MPa	ASTM D638
Tensile Elongation (Yield)	18	%	ASTM D638
Flexural Modulus	2690	MPa	ASTM D790
Flexural Strength	88.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	71.1	°C	ASTM D648
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
Comparative Tracking Index (CTI)	PLC 1		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	121	°C
Drying Time	4.0	hr
Rear Temperature	232 to 274	°C
Middle Temperature	232 to 274	°C
Front Temperature	232 to 274	°C
Processing (Melt) Temp	227 to 260	°C
Mold Temperature	60.0 to 82.2	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm

NOTE

1. Method A (Short-Time)

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