

Tufpet PBT FEX70

Polybutylene Terephthalate
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT FEX70 is a Polybutylene Terephthalate (PBT) material filled with 70% steel. It is available in North America for injection molding. Important attributes of Tufpet PBT FEX70 are:

- Flame Rated
- Chemical Resistant
- Good Dimensional Stability
- Good Processability
- Heat Resistant

General Information			
Filler / Reinforcement	Steel,70% Filler by Weight		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Moldability		
	High Gloss		
	High Heat Resistance		
	Low to No Water Absorption		
Appearance	Grey		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	3.29	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.0 to 1.2	%	ASTM D955
Water Absorption (Saturation, 23°C)	0.38	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	43.1	MPa	ASTM D638
Tensile Elongation (Break)	2.3	%	ASTM D638
Flexural Modulus	7350	MPa	ASTM D790
Flexural Strength	76.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	39	J/m	ASTM D256
Unnotched Izod Impact	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	194	°C	
1.8 MPa, Unannealed	130	°C	
RTI Elec (1.67 mm)	75.0	°C	UL 746

RTI Imp (1.67 mm)	75.0	°C	UL 746
RTI Str (1.67 mm)	75.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.2E+2	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.67 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	2.0	hr	
Rear Temperature	230 to 303	°C	
Middle Temperature	230 to 303	°C	
Front Temperature	230 to 303	°C	
Mold Temperature	40.0 to 100	°C	
Injection Pressure	81.4	MPa	
Screw Speed	80	rpm	

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Recommended distributors for this material

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