

Tufpet PBT SX1040

Polybutylene Terephthalate
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT SX1040 is a Polybutylene Terephthalate (PBT) material filled with 10% glass fiber and 30% mineral. It is available in North America for injection molding.

Important attributes of Tufpet PBT SX1040 are:

Flame Rated
Chemical Resistant
Good Dimensional Stability
Good Processability
Heat Resistant

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
	Mineral,30% Filler by Weight		
Features	General Purpose		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Moldability		
	High Gloss		
	High Heat Resistance		
	Low to No Water Absorption		
Forms	Pellets		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.60 to 1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	49.0	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	5390	MPa	ASTM D790
Flexural Strength	86.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	34	J/m	ASTM D256
Unnotched Izod Impact	290	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load	ASTM D648		

0.45 MPa, Unannealed	180	°C	
1.8 MPa, Unannealed	109	°C	
Electrical	Nominal Value	Unit	Test Method
Arc Resistance	127	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.790 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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