

Tufpet PBT S1040P

Polybutylene Terephthalate
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT S1040P is a Polybutylene Terephthalate (PBT) material filled with 40% mineral. It is available in North America for injection molding. Important attributes of Tufpet PBT S1040P are:

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

General Information			
Filler / Reinforcement	Mineral,40% 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		
	Low Warpage		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.1 to 1.3	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	49.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	4900	MPa	ASTM D790
Flexural Strength	95.1	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.14		
vs. Metal - Dynamic	0.080		
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	86.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	39	J/m	ASTM D256
Unnotched Izod Impact	440	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	187	°C	
1.8 MPa, Unannealed	105	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	23	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.40		ASTM D150
Dissipation Factor (1 MHz)	0.017		ASTM D150
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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