

Tufpet PBT G2230

Polybutylene Terephthalate
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT G2230 is a Polybutylene Terephthalate (PBT) material filled with 30% glass fiber. It is available in North America for injection molding. Important attributes of Tufpet PBT G2230 are:

Flame Rated
Chemical Resistant
Good Dimensional Stability
Good Processability
Heat Resistant

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Arc Resistant		
	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	1.72	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.20 to 1.1	%	ASTM D955
Water Absorption (Saturation, 23°C)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	108	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	10800	MPa	ASTM D790
Flexural Strength	162	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	64	J/m	ASTM D256
Unnotched Izod Impact	540	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	225	°C	
1.8 MPa, Unannealed	210	°C	
RTI Elec			UL 746
0.740 mm	125	°C	
1.47 mm	125	°C	
3.05 mm	125	°C	
RTI Imp			UL 746
0.740 mm	120	°C	
1.47 mm	120	°C	
3.05 mm	125	°C	
RTI Str			UL 746
0.380 mm	75.0	°C	
0.740 mm	120	°C	
1.47 mm	120	°C	
3.05 mm	130	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+18	ohms·cm	ASTM D257
Dielectric Strength	23	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.30		ASTM D150
Dissipation Factor (1 MHz)	0.020		ASTM D150
Arc Resistance	125	sec	ASTM D495
Comparative Tracking Index (CTI)	300	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.380 mm	V-0		
0.740 mm	V-0		
1.47 mm	V-0		
3.05 mm	V-0		
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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