

Tufpet PBT G2810

Polybutylene Terephthalate
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT G2810 is a Polybutylene Terephthalate (PBT) material filled with 10% glass fiber. It is available in North America for injection molding. Important attributes of Tufpet PBT G2810 are:

Flame Rated
Flame Retardant
Chemical Resistant
Good Dimensional Stability
Good Processability

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Moldability		
	High Gloss		
	High Heat Resistance		
	Low to No Water Absorption		
	Non-Blooming		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.40 to 1.6	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	80.4	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	5100	MPa	ASTM D790
Flexural Strength	132	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.13		
vs. Metal - Dynamic	0.090		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	36	J/m	ASTM D256

Unnotched Izod Impact	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	210	°C	
1.8 MPa, Unannealed	190	°C	
RTI Elec			UL 746
0.790 mm	130	°C	
1.57 mm	130	°C	
3.18 mm	130	°C	
RTI Imp			UL 746
0.790 mm	120	°C	
1.57 mm	120	°C	
3.18 mm	120	°C	
RTI Str			UL 746
0.790 mm	120	°C	
1.57 mm	120	°C	
3.18 mm	120	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.790 mm	V-0		
1.57 mm	V-0		
3.18 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	2.0	hr	
Rear Temperature	230 to 260	°C	
Middle Temperature	230 to 260	°C	
Front Temperature	230 to 260	°C	
Mold Temperature	40.0 to 100	°C	
Injection Pressure	81.4	MPa	
Screw Speed	80	rpm	

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