

Tufpet PBT G2820

Polybutylene Terephthalate
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT G2820 is a Polybutylene Terephthalate (PBT) material filled with 20% glass fiber. It is available in North America for injection molding. Important attributes of Tufpet PBT G2820 are:

Flame Rated
Flame Retardant
Chemical Resistant
Good Dimensional Stability
Good Processability

General Information			
Filler / Reinforcement	Glass Fiber,20% 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	1.60	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.20 to 1.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	108	MPa	ASTM D638
Tensile Elongation (Break)	3.1	%	ASTM D638
Flexural Modulus	7260	MPa	ASTM D790
Flexural Strength	167	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	55	J/m	ASTM D256
Unnotched Izod Impact	250	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	215	°C	
1.8 MPa, Unannealed	203	°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	
Electrical	Nominal Value	Unit	Test Method
Arc Resistance	23.0	sec	ASTM D495
Flammability	Nominal Value	Unit	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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