

Tufpet PBT G1030

Polybutylene Terephthalate
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT G1030 is a polybutene terephthalate (PBT) material, which contains a 30% glass fiber reinforced material. This product is available in North America and is processed by injection molding.

The main features of Tufpet PBT G1030 are:

- flame retardant/rated flame
- high gloss
- Good processability
- Good dimensional stability
- moisture resistance

General Information			
UL YellowCard	E54695-244741		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Good dimensional stability		
	Highlight		
	Good formability		
	Good electrical performance		
	Good chemical resistance		
	Heat resistance, high		
Forms	General		
	Low or no water absorption		
Processing Method	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.15 - 0.90	%	ASTM D955
Water Absorption (Saturation, 23°C)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	127	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	9810	MPa	ASTM D790
Flexural Strength	186	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.15		ASTM D1894
With self-dynamics	0.20		ASTM D1894
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	50.0	mg	ASTM D1044

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	78	J/m	ASTM D256
Unnotched Izod Impact	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	220	°C	ASTM D648
1.8 MPa, not annealed	190	°C	ASTM D648
CLTE - Flow	5.5E-5	cm/cm/°C	ASTM D696
Specific Heat	1760	J/kg/°C	ASTM C351
Thermal Conductivity	0.34	W/m/K	ASTM C177
RTI Elec			UL 746
0.760 mm	75.0	°C	UL 746
1.57 mm	75.0	°C	UL 746
3.18 mm	75.0	°C	UL 746
RTI Imp			UL 746
0.760 mm	75.0	°C	UL 746
1.57 mm	75.0	°C	UL 746
3.18 mm	75.0	°C	UL 746
RTI			UL 746
0.760 mm	75.0	°C	UL 746
1.57 mm	75.0	°C	UL 746
3.18 mm	75.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.5E+17	ohms · cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.50		ASTM D150
Dissipation Factor (1 MHz)	0.020		ASTM D150
Arc Resistance	139	sec	ASTM D495
Comparative Tracking Index (CTI)	400	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.760 mm	HB		UL 94
1.57 mm	HB		UL 94
3.18 mm	HB		UL 94
Additional Information			
Coefficient of Linear Thermal Expansion, ASTM D696: 3 to 8 E-5 cm/cm/°C			
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	2.0	hr	
Rear Temperature	230 - 303	°C	
Middle Temperature	230 - 303	°C	
Front Temperature	230 - 303	°C	

Mold Temperature	40.0 - 100	°C
Injection Pressure	81.4	MPa
Screw Speed	80	rpm

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