

Tufpet PBT N1000

Polybutylene Terephthalate
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT N1000 is a polybutene terephthalate (PBT) material. This product is available in North America and is processed by injection molding. The main features of Tufpet PBT N1000 are:
flame retardant/rated flame
high gloss
Good processability
Good dimensional stability
moisture resistance

General Information			
Features	Good dimensional stability		
	Highlight		
	Good formability		
	Good electrical performance		
	Good chemical resistance		
	Good wear resistance		
	General		
	Low or no water absorption		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.5 - 2.0	%	ASTM D955
Water Absorption (Saturation, 23°C)	0.42	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	55.9	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	81.4	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.10		ASTM D1894
With self-dynamics	0.16		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	34	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	150	°C	ASTM D648
1.8 MPa, not annealed	65.0	°C	ASTM D648
CLTE - Flow	8.5E-5	cm/cm/°C	ASTM D696
Specific Heat	1840	J/kg/°C	ASTM C351
Thermal Conductivity	0.26	W/m/K	ASTM C177
RTI Elec (0.794 mm)	75.0	°C	UL 746
RTI Imp (0.794 mm)	75.0	°C	UL 746
RTI (0.794 mm)	75.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+16	ohms·cm	ASTM D257
Dielectric Strength	21	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.10		ASTM D150
Dissipation Factor (1 MHz)	0.023		ASTM D150
Arc Resistance	120	sec	ASTM D495
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.794 mm)	HB		UL 94
Additional Information			
Coefficient of Linear Thermal Expansion, ASTM D696: 7 to 10 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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