

Tufpet PBT N2100

Polybutylene Terephthalate
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT N2100 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 N2100 are:
flame retardant/rated flame
Flame Retardant
high gloss
Good processability
Good dimensional stability

General Information			
Additive	Flame retardancy		
Features	Good dimensional stability		
	Highlight		
	Good formability		
	Good electrical performance		
	Good chemical resistance		
	Good wear resistance		
	General		
	Low or no water absorption		
	Flame retardancy		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.5 - 2.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	56.9	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	2650	MPa	ASTM D790
Flexural Strength	81.4	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.12		ASTM D1894
With self-dynamics	0.17		ASTM D1894
Taber Abrasion Resistance (1000 Cycles, 1000g, CS-10F wheel)	10.0	mg	ASTM D1044
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	29	J/m	ASTM D256
Unnotched Izod Impact	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	177	°C	ASTM D648
1.8 MPa, not annealed	56.0	°C	ASTM D648
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
RTI Elec			UL 746
0.790 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
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RTI			UL 746
0.790 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	4.0E+16	ohms · cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.10		ASTM D150
Dissipation Factor (1 MHz)	0.071		ASTM D150
Arc Resistance	21.0	sec	ASTM D495
Comparative Tracking Index (CTI)	260	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.790 mm	V-0		UL 94
1.57 mm	V-0		UL 94
3.18 mm	V-0		UL 94
Additional Information			
Coefficient of Linear Thermal Expansion, ASTM D696: 7 to 9 E-5 cm/cm/°C			
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	2.0	hr	
Rear Temperature	230 - 260	°C	
Middle Temperature	230 - 260	°C	
Front Temperature	230 - 260	°C	
Mold Temperature	40.0 - 100	°C	
Injection Pressure	81.4	MPa	
Screw Speed	80	rpm	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

