Tufpet PBT S1030U

Polybutylene Terephthalate

Mitsubishi Rayon America Inc.

Message:

Tufpet PBT S1030U is a polybutene terephthalate (PBT) material, which contains 30% glass fiber reinforced materials and 10% mineral fillers. This product is available in North America and is processed by injection molding.
The main features of Tufpet PBT S1030U are:
flame retardant/rated flame
high gloss
Good processability
anti-warping
Good dimensional stability

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight Mineral filler, 10% filler by weight		
Features	Good dimensional stability Low warpage Highlight Good formability Good electrical performance Good chemical resistance Heat resistance, high General Low or no water absorption		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.55	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.25 - 0.85	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	106	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	9410	MPa	ASTM D790
Flexural Strength	177	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
With Metal-Dynamic	0.10		ASTM D1894
With self-dynamics	0.21		ASTM D1894

Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	96.0	mg	ASTM D1044
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	98	J/m	ASTM D256
Unnotched Izod Impact	610	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	215	°C	ASTM D648
1.8 MPa, not annealed	189	°C	ASTM D648
CLTE - Flow	4.5E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	4.0E+14	ohms·cm	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.50		ASTM D150
Dissipation Factor (1 MHz)	0.026		ASTM D150
Arc Resistance	127	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.790 mm)	HB		UL 94
Additional Information			
Coefficient of Linear Thermal Expansion, ASTM D696: 3 to 6 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	

Recommended distributors for this material

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