

Tufpet PBT B39

Polybutylene Terephthalate
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT B39 is a Polybutylene Terephthalate (PBT) material filled with brass fiber. It is available in North America for injection molding. Important attributes of Tufpet PBT B39 are:

Flame Rated
Chemical Resistant
Electromagnetic Shielding (EMI)
Good Dimensional Stability
Good Processability

General Information			
Filler / Reinforcement	Brass Fiber		
Features	Electromagnetic Shielding (EMI)		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Moldability		
	High Gloss		
	High Heat Resistance		
	Low to No Water Absorption		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.96	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.60 to 1.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	57.9	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	5300	MPa	ASTM D790
Flexural Strength	97.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	35	J/m	ASTM D256
Unnotched Izod Impact	190	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	170	°C	

1.8 MPa, Unannealed	207	°C	
RTI Elec (0.790 mm)	75.0	°C	UL 746
RTI Imp (0.790 mm)	75.0	°C	UL 746
RTI Str (0.790 mm)	75.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+2	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.790 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	140	°C	
Drying Time	2.0	hr	
Rear Temperature	230 to 303	°C	
Middle Temperature	230 to 303	°C	
Front Temperature	230 to 303	°C	
Mold Temperature	40.0 to 100	°C	
Injection Pressure	81.4	MPa	
Screw Speed	80	rpm	

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Recommended distributors for this material

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