

Tufpet PBT G1020

Polybutylene Terephthalate
Mitsubishi Rayon America Inc.

Message:

Tufpet PBT G1020 is a Polybutylene Terephthalate (PBT) material filled with 20% glass fiber. It is available in North America for injection molding. Important attributes of Tufpet PBT G1020 are:

- Flame Rated
- Chemical Resistant
- Good Dimensional Stability
- Good Processability
- Heat Resistant

General Information			
UL YellowCard	E54695-244740		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	General Purpose		
	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Moldability		
	High Gloss		
	High Heat Resistance		
	Low to No Water Absorption		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.25 to 1.3	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	108	MPa	ASTM D638
Tensile Elongation (Break)	2.1	%	ASTM D638
Flexural Modulus	6860	MPa	ASTM D790
Flexural Strength	177	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	69	J/m	ASTM D256
Unnotched Izod Impact	390	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648

RTI Elec			UL 746
0.760 mm	75.0	°C	
1.57 mm	75.0	°C	
3.18 mm	75.0	°C	
RTI Imp			UL 746
0.760 mm	75.0	°C	
1.57 mm	75.0	°C	
3.18 mm	75.0	°C	
RTI Str			UL 746
0.760 mm	75.0	°C	
1.57 mm	75.0	°C	
3.18 mm	75.0	°C	
Flammability			Test Method
Flame Rating			UL 94
0.760 mm	HB		
1.57 mm	HB		
3.18 mm	HB		
Injection			
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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