Tufpet PBT G2815

Polybutylene Terephthalate

Mitsubishi Rayon America Inc.

Message:

Tufpet PBT G2815 is a Polybutylene Terephthalate (PBT) material filled with 15% glass fiber. It is available in North America for injection molding.
Important attributes of Tufpet PBT G2815 are:
Flame Rated
Flame Retardant
Chemical Resistant
Good Dimensional Stability
Good Processability

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant Good Chemical Resistance Good Dimensional Stability Good Electrical Properties Good Moldability High Gloss High Heat Resistance Low to No Water Absorption Non-Blooming		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.56	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.30 to 1.5	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	98.1	MPa	ASTM D638
Tensile Elongation (Break)	3.4	%	ASTM D638
Flexural Modulus	6370	MPa	ASTM D790
Flexural Strength	157	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	49	J/m	ASTM D256
Unnotched Izod Impact	230	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	215	°C	
1.8 MPa, Unannealed	200	°C	
Specific Heat	1550	J/kg/°C	ASTM C351
Thermal Conductivity	0.29	W/m/K	ASTM C177
RTI Elec			UL 746
0.790 mm	130	°C	
1.57 mm	130	°C	
3.18 mm	130	°C	
RTI Imp			UL 746
0.790 mm	120	°C	
1.57 mm	120	°C	
3.18 mm	120	°C	
RTI Str			UL 746
0.790 mm	120	°C	
1.57 mm	120	°C	
3.18 mm	120	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength	23	kV/mm	ASTM D149
Arc Resistance	23.0	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.790 mm	V-0		
1.57 mm	V-0		
3.18 mm	V-0		
Injection	**Nominal Value**	**Unit**	
Drying Temperature	140	°C	
Drying Time	2.0	hr	
Rear Temperature	230 to 260	°C	
Middle Temperature	230 to 260	°C	
Front Temperature	230 to 260	°C	
Mold Temperature	40.0 to 100	°C	
Injection Pressure	81.4	MPa	
Screw Speed	80	rpm	

Recommended distributors for this material

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