

PTS PBT-20GFR

Polybutylene Terephthalate
Polymer Technology and Services, LLC

Message:

PTS PBT-20GFR is a Polybutylene Terephthalate (PBT) product filled with 20% glass fiber. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Good Processability
- High Flow

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Flame Retardant		
	Good Processability		
	High Flow		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52 to 1.58	g/cm ³	ASTM D792
Ash Content	20.0 to 24.0		ISO 3451
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	85.0	MPa	ASTM D638
Tensile Elongation ² (Break)	1.8	%	ASTM D638
Flexural Modulus ³	6800	MPa	ASTM D790
Flexural Strength ⁴	135	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	5.50	kJ/m ²	ASTM D256
Unnotched Izod Impact (Area) (23°C)	48.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	195	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength (in oil)	18	kV/mm	ASTM D149
Dielectric Constant (50 Hz)	3.40		ASTM D150
Dissipation Factor			ASTM D150
50 Hz	0.020		
60 Hz	0.020		

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 to 140	°C	
Drying Time	3.0 to 4.0	hr	
Nozzle Temperature	240	°C	
Processing (Melt) Temp	250 to 280	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Pressure	70.0 to 120	MPa	
Back Pressure	6.00 to 18.0	MPa	
Screw Speed	< 100	rpm	
NOTE			
1.	10 mm/min		
2.	10 mm/min		
3.	10 mm/min		
4.	10 mm/min		

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