

PTS PBT-101G0

Polybutylene Terephthalate
Polymer Technology and Services, LLC

Message:

PTS PBT-101G0 is a Polybutylene Terephthalate (PBT) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Appliances. Primary characteristic: flame rated.

General Information			
Uses	Appliances		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	26	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	2.0	%	
Across Flow	1.4	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ASTM D638
Tensile Strength (Break)	52.0	MPa	ASTM D638
Tensile Elongation (Break)	> 100	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	5.40	kJ/m ²	ASTM D256
Unnotched Izod Impact (Area) (23°C)	80.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	145	°C	
1.8 MPa, Unannealed	53.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.380 mm	HB		
0.800 mm	HB		
1.60 mm	HB		
3.20 mm	HB		

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