

BLUESTAR® PBT 101G20

Polybutylene Terephthalate
Nantong Zhonglan Engineering Plastics Co., Ltd.

Message:
BLUESTAR® PBT 101G20 is a Polybutylene Terephthalate (PBT) product filled with 20% glass fiber. It is available in Asia Pacific or North America. Typical application: Appliances. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Uses	Appliances		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.40	%	
Across Flow	1.3	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7100	MPa	ASTM D638
Tensile Strength (Break)	95.0	MPa	ASTM D638
Flexural Modulus	6850	MPa	ASTM D790
Flexural Strength	165	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	7.00	kJ/m ²	ASTM D256
Unnotched Izod Impact (Area) (23°C)	43.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	215	°C	
1.8 MPa, Unannealed	195	°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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