

BLUESTAR® PBT 403G-M20

Polybutylene Terephthalate

Nantong Zhonglan Engineering Plastics Co., Ltd.

Message:

BLUESTAR® PBT 403G-M20 is a Polybutylene Terephthalate (PBT) product filled with 20% mineral. It is available in Asia Pacific or North America. Typical application: Electrical/Electronic Applications. Primary characteristic: flame rated.

General Information			
UL YellowCard	E255317-500385		
Filler / Reinforcement	Mineral,20% Filler by Weight		
Uses	Electrical/Electronic Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.40	%	
Across Flow	0.70	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.17	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ASTM D638
Tensile Strength (Break)	100	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	6000	MPa	ASTM D790
Flexural Strength	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	10.0	kJ/m ²	ASTM D256
Unnotched Izod Impact (Area) (23°C)	60.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	219	°C	
1.8 MPa, Unannealed	204	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.2E+16	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-0		
1.60 mm	V-0		

3.20 mm	V-0	
Glow Wire Ignition Temperature	750	°C

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