

BLUESTAR® PBT 403G-M30

Polybutylene Terephthalate

Nantong Zhonglan Engineering Plastics Co., Ltd.

Message:

BLUESTAR® PBT 403G-M30 is a Polybutylene Terephthalate (PBT) product filled with 30% 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,30% Filler by Weight		
Uses	Electrical/Electronic Applications		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.62	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	19	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.40	%	
Across Flow	0.60	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.16	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ASTM D638
Tensile Strength (Break)	110	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	8000	MPa	ASTM D790
Flexural Strength	175	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	11.0	kJ/m ²	ASTM D256
Unnotched Izod Impact (Area) (23°C)	65.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	220	°C	
1.8 MPa, Unannealed	207	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.3E+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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