

BLUESTAR® PBT 403M-G30

Polybutylene Terephthalate

Nantong Zhonglan Engineering Plastics Co., Ltd.

Message:

BLUESTAR® PBT 403M-G30 is a Polybutylene Terephthalate (PBT) product filled with 30% glass fiber. It can be processed by injection molding and is available in Asia Pacific or North America.

Characteristics include:

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

General Information			
UL YellowCard	E255317-500386		
Filler / Reinforcement	Glass Fiber,30% 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	1.58 to 1.63	g/cm ³	ASTM D792
Ash Content	28.0 to 34.0		ISO 3451
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	105	MPa	ASTM D638
Tensile Elongation ² (Break)	1.8	%	ASTM D638
Flexural Modulus ³	8000	MPa	ASTM D790
Flexural Strength ⁴	165	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	7.50	kJ/m ²	ASTM D256
Unnotched Izod Impact (Area) (23°C)	55.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	200	°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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