

Durepol® PBT A3 G10 PRTA011 BT313 MSP

Polybutylene Terephthalate

Petropol Industry and Trade of Polymers LTDA

Message:

Polyester PBT reinforced with 10% glass fiber in black, excellent mechanical and thermal properties.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Appearance	Black		
Resin ID (ISO 1043)	>PBT GF10<		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage	0.70 to 1.2	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Ash Content	8.0 to 12	%	MAPM C-05
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	90.0	MPa	ISO 527-2
Tensile Strain (Break)	4.8	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	4000	MPa	
1000 hr	2500	MPa	
Flexural Stress	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.5	kJ/m ²	ISO 179
Notched Izod Impact Strength	6.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	215	°C	ISO 75-2/B
Vicat Softening Temperature	215	°C	ISO 306
Melting Temperature	225	°C	ISO 11357-3
Electrical	Nominal Value		Test Method
Dissipation Factor			IEC 60250
1.00 mm, 50 Hz	2.0E-3		
1.00 mm, 100 Hz	2.0E-3		
1.00 mm, 1 MHz	0.020		
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	6.0	hr	

Suggested Max Moisture	0.020	%
Processing (Melt) Temp	240 to 260	°C
Mold Temperature	80.0	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

