

Durepol® PBT A3 G15 FR PRTA010 BT301

Polybutylene Terephthalate

Petropol Industry and Trade of Polymers LTDA

Message:

Polyester PBT reinforced with 15% glass fiber, Flame Retardant V-0, excellent mechanical and thermal properties.

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PBT GF20<		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Molding Shrinkage	0.70 to 1.2	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	95.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	6000	MPa	
1000 hr	4800	MPa	
Flexural Stress	155	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179
Notched Izod Impact Strength	8.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	217	°C	ISO 306
Melting Temperature	225	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Dissipation Factor			IEC 60250
1.00 mm, 100 Hz	3.0E-3		
1.00 mm, 1 MHz	0.017		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
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

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