

Durepol® PBT A3 G20 BRCA010 BT325

Polybutylene Terephthalate

Petropol Industry and Trade of Polymers LTDA

Message:

PBT polyester in color white reinforced with 20% of fiberglass, good set of thermal and mechanical properties. Ideal for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Appearance	White		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PBT GF20<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 to 1.0	%	ASTM D955
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Ash Content	18 to 22	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	115	MPa	ASTM D638
Tensile Elongation (Break)	3.3	%	ASTM D638
Flexural Modulus (23°C)	7490	MPa	ASTM D790
Flexural Strength	179	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	°C	ASTM D648
Vicat Softening Temperature	210	°C	ASTM D1525 ¹
Melting Temperature ²	228	°C	ASTM D2117
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+16	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	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	30.0 to 130	°C	
NOTE			

1.	Rate A (50°C/h)
2.	10°C/min

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