

Durepol® PBT A3 G50 NTLA010 BT330

Polybutylene Terephthalate

Petropol Industry and Trade of Polymers LTDA

Message:

PBT polyester natural reinforced with 50% of fiberglass, good set of thermal and mechanical properties. Ideal for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Appearance	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PBT GF50<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.73	g/cm ³	ASTM D792
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Ash Content	48 to 52	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	16200	MPa	ASTM D638
Tensile Strength ² (Break)	155	MPa	ASTM D638
Tensile Elongation ³ (Break)	1.7	%	ASTM D638
Flexural Modulus (23°C)	14900	MPa	ASTM D790
Flexural Strength	230	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	°C	ASTM D648
Melting Temperature ⁴	225	°C	ASTM D2117
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	6.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	70.0 to 100	°C	
NOTE			
1.	2.0 mm/min		

2.	5.0 mm/min
3.	5.0 mm/min
4.	10°C/min

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