

Durepol® PBT A3 G30 NTLA010 BT302

Polybutylene Terephthalate

Petropol Industry and Trade of Polymers LTDA

Message:

Polyester PBT reinforced with 30% fiberglass, excellent mechanical and thermal properties.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PBT GF30<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.90	%	ASTM D955
Water Absorption (24 hr)	> 0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	135	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	8300	MPa	ASTM D790
Flexural Strength	200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	95	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	215	°C	ASTM D648
Vicat Softening Temperature	214	°C	ASTM D1525 ¹
Melting Temperature	225	°C	ASTM D2117
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.00 mm)	17	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	6.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	250 to 265	°C	
Mold Temperature	100	°C	
NOTE			
1.	Rate A (50°C/h)		

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