

Durepol® PBT A3 G15 TZ NTLA010 BT327

Polybutylene Terephthalate

Petropol Industry and Trade of Polymers LTDA

Message:

PBT polyester natural reinforced with 15% of fiberglass and impact modified, good set of thermal and mechanical properties. Ideal for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Impact Modifier		
Features	Impact Modified		
Appearance	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PBT GF15<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	15.0	cm ³ /10min	ASTM D1238
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Ash Content	13 to 17	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5200	MPa	ASTM D638
Tensile Strength (Break, 23°C)	92.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	38	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	60	J/m	
23°C	110	J/m	
Unnotched Izod Impact			ASTM D256
-30°C	330	J/m	
23°C	610	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	217	°C	
1.8 MPa, Unannealed	197	°C	
Vicat Softening Temperature	219	°C	ASTM D1525
Melting Temperature ¹	224	°C	ASTM D2117
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	ASTM D257
Volume Resistivity	> 1.0E+13	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	

Drying Temperature	110	°C
Drying Time	6.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	250 to 270	°C
Mold Temperature	80.0 to 100	°C

NOTE

1. 10°C/min

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