

Durepol® PBT A3 CNZ0028 BT305 MSP

Polybutylene Terephthalate
Petropol Industry and Trade of Polymers LTDA

Message:
PBT polyester gray in color, with excellent electrical, thermal and mechanical. Ideal for injection molding.

General Information			
Features	Good Electrical Properties		
Appearance	Grey		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PBT<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.5 to 1.7	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	170	°C	
1.8 MPa, Unannealed	60.0	°C	
Peak Melting Temperature	225	°C	ASTM D2117
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dissipation Factor (1 kHz)	2.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Glow Wire Flammability Index (3.00 mm)	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	5.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	70.0 to 80.0	°C	

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