

Durepol® PBT A3 V20 CNZ0350 BT331

Polybutylene Terephthalate

Petropol Industry and Trade of Polymers LTDA

Message:

PBT polyester in gray color, lubricated and with 20% glass spheres. Ideal for injection molding.

General Information			
Filler / Reinforcement	Glass Bead,20% Filler by Weight		
Additive	Lubricant		
Features	Lubricated		
Appearance	Grey		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PBT GB20<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	34	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.2 to 1.6	%	ASTM D955
Ash Content	18 to 22	%	ASTM D2584
Charpy Unnotched Impact Strength (23°C)	25.0	kJ/m ²	ASTM D256
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3300	MPa	ASTM D638
Tensile Strength (Break, 23°C)	60.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	4.0	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	180	°C	
1.8 MPa, Unannealed	75.0	°C	
Melting Temperature ¹	225	°C	ASTM D2117
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	70.0 to 90.0	°C	
NOTE			
1.	10°C/min		

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