

Durepol® PBT A3 NTLA010 BT307

Polybutylene Terephthalate
Petropol Industry and Trade of Polymers LTDA

Message:
PBT polyester high viscosity. Ideal for injection molding.

General Information			
Features	High Viscosity		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PBT<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm³	ASTM D792
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	8.50 to 11.7	cm³/10min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.5 to 1.7	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2800	MPa	ASTM D638
Tensile Strength (Break, 23°C)	54.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	150	%	ASTM D638
Flexural Modulus (23°C)	2400	MPa	ASTM D790
Flexural Strength	83.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.1	kJ/m²	ASTM D256
Notched Izod Impact (23°C)	52	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.0	°C	ASTM D648
Melting Temperature ¹	224	°C	ASTM D2117
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	6.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	70.0 to 80.0	°C	
NOTE			

1. 10°C/min

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