

PENTESTER BT L H schwarz

Polybutylene Terephthalate
PENTAC Polymer GmbH

Message:
Normal viscosity, heat stabilised polyester PBT, slightly impact moidified, easy flowing

General Information			
Additive	Impact modifier		
	heat stabilizer		
Features	Good dimensional stability		
	Impact modification		
	Good liquidity		
	Thermal Stability		
Uses	Bar		
	Engineering accessories		
	Connector		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.6	%	ISO 294-4
Flow direction	1.6	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	175	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2450	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2
Yield	53.0	MPa	ISO 527-2
Fracture	53.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	3.5	%	ISO 527-2
Fracture	20	%	ISO 527-2

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	150	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	°C	ISO 75-2/A
Melting Temperature (DSC)	225	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.00 mm)	25	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.20		IEC 60250
Comparative Tracking Index	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		UL 94
3.20 mm	HB		UL 94
Additional Information			
ISO Description: PBT, MPRMC, 13-020The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.Tensile Strain at Break, ISO 527: >20%			
Injection	Nominal Value	Unit	
Drying Temperature	70.0	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Max Regrind	20	%	
Rear Temperature	245 - 270	°C	
Middle Temperature	255 - 280	°C	
Front Temperature	265 - 275	°C	
Processing (Melt) Temp	260	°C	
Mold Temperature	80.0	°C	
Injection Pressure	45.0	MPa	
Holding Pressure	24.8	MPa	
Screw L/D Ratio	20.0:1.0		
Screw Compression Ratio	2.2:1.0 to 2.8:1.0		

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