

PENTESTER BT H black

Polybutylene Terephthalate

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyester PBT

General Information			
Additive	heat stabilizer		
Features	Thermal Stability		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	1.6	%	ISO 294-4
Flow	1.6	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.50	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2650	MPa	ISO 527-2/1
Tensile Stress (Yield)	55.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.5	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	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	160	°C	ISO 75-2/B
1.8 MPa, not annealed	60.0	°C	ISO 75-2/A
Melting Temperature	225	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	25	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.20		IEC 60250
Comparative Tracking Index	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.6 mm	HB		UL 94

3.2 mm	HB	UL 94
Additional Information	Nominal Value	Test Method
ISO Shortname	PBT, MPRMC, 13-030	ISO 1874
Injection	Nominal Value	Unit
Drying Temperature	70	°C
Drying Time	3.0	hr
Suggested Max Moisture	0.0 - 0.060	%
Suggested Max Regrind	20	%
Rear Temperature	245 - 270	°C
Middle Temperature	250 - 280	°C
Front Temperature	265 - 275	°C
Processing (Melt) Temp	245 - 275	°C
Mold Temperature	60 - 100	°C
Injection Pressure	50.0	MPa
Screw L/D Ratio	18.0:1.0 to 22.0:1.0	
Screw Compression Ratio	2.2:1.0 to 2.8:1.0	

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