

PENTESTER BT GV30 H natur

Polybutylene Terephthalate

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyester PBT, 30% glass fiber reinforced

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Thermal Stability		
Uses	Engineering accessories		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.80	%	ISO 294-4
Flow direction	0.50	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 961/30)	170	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8500	MPa	ISO 527-2/1
Tensile Stress (Break)	135	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	55	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	215	°C	ISO 75-2/B
1.8 MPa, not annealed	200	°C	ISO 75-2/A
Melting Temperature (DSC)	225	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.00 mm)	30	kV/mm	IEC 60243-1

Relative Permittivity (1 MHz)	3.80		IEC 60250
Comparative Tracking Index	400	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, MPRM, 13-090, GF30The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.			
Injection	Nominal Value	Unit	
Drying Temperature	70.0	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.098	%	
Suggested Max Regrind	20	%	
Rear Temperature	255 - 280	°C	
Middle Temperature	270 - 285	°C	
Front Temperature	270 - 280	°C	
Processing (Melt) Temp	275	°C	
Mold Temperature	80.0	°C	
Injection Pressure	65.0	MPa	
Holding Pressure	39.0	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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