

PENTESTER BT GV30 H schwarz

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	Black		
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)	130	MPa	ISO 527-2
Tensile Strain (Break)	2.8	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	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, MPRMC, 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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

