

PENTESTER BT GV20 H natural

Polybutylene Terephthalate

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyester PBT, 20% glass fiber reinforced

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	0.85	%	ISO 294-4
Flow	0.55	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.40	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6600	MPa	ISO 527-2/1
Tensile Stress (Break)	115	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	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	225	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	29	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.80		IEC 60250
Comparative Tracking Index	350	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.2 mm)	HB		UL 94

Additional Information	Nominal Value	Test Method
ISO Shortname	PBT, MPR, 13-070, GF20	ISO 1874

Injection	Nominal Value	Unit
Drying Temperature	70	°C
Drying Time	3.0	hr
Suggested Max Moisture	0.0 - 0.070	%
Suggested Max Regrind	20	%
Rear Temperature	255 - 280	°C
Middle Temperature	265 - 290	°C
Front Temperature	270 - 280	°C
Processing (Melt) Temp	260 - 290	°C
Mold Temperature	60 - 100	°C
Injection Pressure	65.0	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	

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

