

PENTESTER BT GV20 H black

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	Black		
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	0.90	%	ISO 294-4
Flow	0.60	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.35	%	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)	105	MPa	ISO 527-2/5
Tensile Strain (Break)	2.8	%	ISO 527-2/5
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)	35	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	195	°C	ISO 75-2/A
Melting Temperature	225	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	28	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.60		IEC 60250
Comparative Tracking Index	300	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, MPRC, 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	60.0	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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