PENTESTER BT GV30 H RC black

Polybutylene Terephthalate

PENTAC Polymer GmbH

Message:

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

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	heat stabilizer		
Recycled Content	Yes		
Features	Thermal Stability		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.52	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	0.80	%	ISO 294-4
Flow	0.55	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8000	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)	4.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	kJ/m²	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)	3.60		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, MPRMC, 13-080, GF30	ISO 1874

Injection	Nominal Value	Unit
Drying Temperature	70	°C
Drying Time	3.0	hr
Suggested Max Moisture	0.050 - 0.13	%
Suggested Max Regrind	20	%
Rear Temperature	255 - 280	°C
Middle Temperature	265 - 290	°C
Front Temperature	270 - 280	°C
Processing (Melt) Temp	255 - 295	°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	

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