

## Hippe PBT GF 30 Polybutylene Terephthalate 30% Glass fiber Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 40% Glass Fiber Filled

### Material Notes:

PBT GF is a highly versatile, semi-crystalline structural thermoplastic reinforced with 30% glass fiber, with very high rigidity and strength characteristics and excellent electrical insulation properties. Information provided by Hippe.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hippe-PBT-GF-30-Polybutylene-Terephthalate-30-Glass-fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Hippe-PBT-GF-30-Polybutylene-Terephthalate-30-Glass-fiber-Reinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.54 g/cc	1.54 g/cc	DIN 53 479
Moisture Absorption at Equilibrium	0.15 %	0.15 %	Absorption of humidity in standard operating environment; DIN 53 715
Water Absorption at Saturation	0.35 %	0.35 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Elongation at Break	3.0 %	3.0 %	DIN 53 455
Tensile Modulus	10.0 GPa	1450 ksi	DIN 53 457
Charpy Impact, Notched	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	DIN 53 453
Coefficient of Friction, Dynamic	0.24	0.24	Against steel, p=0.05 N/mm <sup>2</sup> , v=0.6 m/s, hardened and ground
Tear Strength Test	130	130	in MPa; DIN 53 455

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 - 30.0 µm/m-°C	11.1 - 16.7 µin/in-°F	
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	
Melting Point	225 °C	437 °F	DIN 53 736
Maximum Service Temperature, Air	120 °C	248 °F	Continuous use
	190 °C	374 °F	Short Periods
Deflection Temperature at 0.46 MPa (66 psi)	225 °C	437 °F	ISO-R 75 Method B
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO-R 75 Method A
Glass Transition Temp, Tg	22.0 °C	71.6 °F	dynamic; DIN 53 736
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	DIN 53 482, VDE 0303, Part 3
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	DIN 53 482
Dielectric Constant	3.8	3.8	DIN 53 483, IEC-250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	50.0 kV/mm	1270 kV/in	Breakdown; DIN 53 481, IEC-243, VDE 0303 Part 1
Dielectric Loss Index	0.0090	0.0090	DIN 53 483, IEC-250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
Creep Resistance	Grade CTI 400	DIN 53 480, IEC-112, VDE 0303 Part 1
Resistance to hot water, suds	not resistant	

## Contact Songhan Plastic Technology Co.,Ltd.

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