

## PolyOne Edgetek® PS-20GF/000 Polybutylene Terephthalate (PBT), Glass Filled (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

Description/Features: Glass Fiber Reinforced PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Edgetek-PS-20GF000-Polybutylene-Terephthalate-PBT-Glass-Filled-nbspdiscontinued.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PS-20GF000-Polybutylene-Terephthalate-PBT-Glass-Filled-nbspdiscontinued.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Water Absorption	0.080 %	0.080 %	24 hr. Immersion; ASTM D570
Water Absorption at Saturation	0.50 %	0.50 %	Long-Term Immersion; ASTM D570
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	124 MPa	18000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	7.58 GPa	1100 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	170.6 MPa	24750 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm @ Thickness 6.35 mm, Temperature 23.0 °C	2.50 ft-lb/in @ Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	24.3 µm/m-°C @ Temperature 20.0 °C	13.5 µin/in-°F @ Temperature 68.0 °F	ASTM D696
Thermal Conductivity	>= 0.418 W/m-K	>= 2.90 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	216 °C	420 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistivity per Square	1.00e+15 ohm	1.00e+15 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	243 - 266 °C	470 - 510 °F	Molding
Mold Temperature	93.3 - 121 °C	200 - 250 °F	
Drying Temperature	93.3 - 121 °C	200 - 250 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

## Contact Songhan Plastic Technology Co.,Ltd.

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