

PolyOne Edgetek® PS-20CF/000 Polybutylene Terephthalate (PBT), Carbon Fiber Reinforced (discontinued **)

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

Material Notes:

Description/Features: Carbon 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-20CF000-Polybutylene-Terephthalate-PBT-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.376 g/cc	1.376 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0015 - 0.0020 cm/cm	0.0015 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	124 MPa	18000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	13.8 GPa	2000 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 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

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 - 1000 ohm-cm	10 - 1000 ohm-cm	ASTM D257
Surface Resistivity per Square	10 - 1000 ohm	10 - 1000 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	243 - 277 °C	470 - 530 °F	Molding
Mold Temperature	82.2 - 110 °C	180 - 230 °F	
Drying Temperature	82.2 - 110 °C	180 - 230 °F	

Dry Time Processing Properties	2 hour Metric	2 hour English	Comments
Descriptive Properties		Value	Comments
Product Form		Pellets	

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