

PolyOne Stat-Tech™ PS-18CF/000 CM Black Polybutylene Terephthalate (PBT), Carbon Fiber Reinforced (discontin

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

Material Notes:

Preliminary Data Sheet 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-Stat-Tech-PS-18CF000-CM-Black-Polybutylene-Terephthalate-PBT-Carbon-Fiber-Reinforced-nbspdiscontinuu.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 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	117 MPa	17000 psi	Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	12.4 GPa	1800 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.00 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	2 hrs

Descriptive Properties	Value	Comments
Product Form	Pellets	

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