

PolyOne Edgetek® PS-30CF/000 HF UV BLACK Polybutylene Terephthalate (PBT)

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

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PS-30CF000-HF-UV-BLACK-Polybutylene-Terephthalate-PBT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.020 - 0.060 cm/cm @Thickness 3.18 mm	0.020 - 0.060 in/in @Thickness 0.125 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.011 - 0.013 cm/cm @Thickness 3.18 mm	0.011 - 0.013 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	165 MPa	23900 psi	5.1 mm/min; ASTM D638
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	ASTM D638
Tensile Modulus	21.9 GPa	3180 ksi	5.1 mm/min; ASTM D638
Flexural Strength	255 MPa	37000 psi	1.3 mm/min; ASTM D790
Flexural Modulus	17.9 GPa	2600 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	222 °C	432 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	211 °C	412 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 10000 ohm-cm	100 - 10000 ohm-cm	ASTM D257
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

Descriptive Properties	Value	Comments
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Features Descriptive Properties	Electrically Conductive Value	Comments
	Good Chemical Resistance	
	Good Flow	
	High Heat Resistance	
	High Stiffness	
	Semi Crystalline	
Filler / Reinforcement	Carbon Fiber Reinforcement, 30% Filler by Weight	
Forms	Pellets	
Generic Material	PBT	
Generic Name	Polybutylene Terephthalate (PBT)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Appliance Components	
	Appliances	
	Automotive Applications	
	Consumer Applications	
	Housings	
	Industrial Applications	
	Structural Parts	

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