

Edgetek™ PS-30CF/000 HF UV BLACK

Polybutylene Terephthalate

PolyOne Corporation

Message:

Edgetek™ PS-30CF/000 HF UV BLACK is a Polybutylene Terephthalate (PBT) product filled with 30% carbon fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Edgetek™ PS-30CF/000 HF UV BLACK include appliances, automotive, consumer goods, engineering/industrial parts and housings.

Characteristics include:

Chemical Resistant

Conductive

Crystalline

Heat Resistant

High Stiffness

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Electrically Conductive		
	Good Chemical Resistance		
	Good Flow		
	High Heat Resistance		
	High Stiffness		
	Semi Crystalline		
Uses	Appliance Components		
	Appliances		
	Automotive Applications		
	Consumer Applications		
	Housings		
	Industrial Applications		
	Structural Parts		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.020 to 0.060	%	
Across Flow : 3.18 mm	1.1 to 1.3	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	21900	MPa	ASTM D638
Tensile Strength ² (Break)	165	MPa	ASTM D638
Tensile Elongation (Break)	1.0 to 2.0	%	ASTM D638
Flexural Modulus ³	17900	MPa	ASTM D790
Flexural Strength ⁴	255	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	222	°C	
1.8 MPa, Unannealed	211	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+4	ohms·cm	ASTM D257
NOTE			
1.	5.1 mm/min		
2.	5.1 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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