

Stat-Tech™ AS-20CF/000 BK001

Acrylonitrile Butadiene Styrene

PolyOne Corporation

Message:

20 % carbon fiber reinforced ABS compound

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	ESD Protection		
Uses	Aerospace Applications		
	Automotive Under the Hood		
	Business Equipment		
	Electrical/Electronic Applications		
	Housings		
	Printer Parts		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.15 to 0.20	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	100	MPa	ASTM D638
Tensile Elongation ² (Break)	2.5 to 4.0	%	ASTM D638
Flexural Modulus	7600	MPa	ASTM D790
Flexural Strength	140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm, Injection Molded)	50	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	85.0	°C	
1.8 MPa, Unannealed, 3.18 mm	75.0	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 to 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		Internal Method
Injection	Nominal Value	Unit	

Drying Temperature	80.0 to 85.0	°C
Drying Time	4.0	hr
Processing (Melt) Temp	220 to 250	°C
Mold Temperature	65.0 to 85.0	°C
NOTE		
1.	Type I, 5.1 mm/min	
2.	Type I, 5.1 mm/min	

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