

Stat-Tech™ ST-16151-05-02 Black

Polyamide 66
PolyOne Corporation

Message:

Stat-Tech™Conductive composite materials have anti-static, ESD and RFI/EMI shielding functions in key electronic equipment. These materials combine the advantages of engineering resins and selected reinforcing additives, such as carbon powder, carbon fiber, nickel-plated carbon fiber and stainless steel fiber. According to the application requirements, the conductivity level of these reinforcing additives is from low to high.

General Information			
Features	Semicrystallization		
	Rigidity, high		
	Good chemical resistance		
	Flame retardancy		
Uses	Computer components		
	Electrical/Electronic Applications		
	Aerospace applications		
	Connector		
	Business equipment		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage	0.10 - 0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	110	MPa	ASTM D638
Flexural Modulus	6450	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	190	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 - 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			Internal method
0.750 mm	V-2		Internal method
1.50 mm	V-0		Internal method
3.00 mm	V-0		Internal method

Injection	Nominal Value	Unit
Drying Temperature	80.0 - 90.0	°C
Drying Time	4.0 - 6.0	hr
Processing (Melt) Temp	260 - 280	°C
Mold Temperature	65.0 - 85.0	°C
Injection instructions		

Injection Pressure: MED-HIGHHold Pressure: MED-HIGHScrew Speed: MODERATEBack Pressure: LOW

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