Stat-Tech™ PI-05CF/000R Black

Polyether Imide

PolyOne Corporation

Message:

Stat-Tech™ Electrically Conductive Compounds are specifically engineered to provide anti-static, ESD and RFI/EMI shielding performance for critical electronic equipment applications. These compounds combine the performance of select engineering resins with reinforcing additives such as carbon powder, carbon fiber, nickel-coated carbon fiber and stainless steel fiber for low to high levels of conductivity depending upon application requirements.

General Information			
Filler / Reinforcement	Carbon Fiber,5.0% Filler by Weight		
Features	Antistatic		
Uses	Aerospace Applications Automotive Electronics Business Equipment Computer Components Connectors Electrical Housing Electrical/Electronic Applications Housings		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.30	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.10 to 0.20	%	
Across Flow	0.10 to 0.20	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	6060	MPa	ASTM D638
Tensile Strength (Break)	130	MPa	ASTM D638
Tensile Elongation [2] (Break)	4.2	%	ASTM D638
Flexural Modulus	5960	MPa	ASTM D790
Flexural Strength	212	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 6.35 mm, Injection Molded)	53	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	212	°C	
1.8 MPa, Unannealed, 6.35 mm	206	°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10 to 1.0E+12	ohms	ASTM D257
Volume Resistivity	1.0E+10 to 1.0E+12	ohms·cm	ASTM D257
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	360 to 399	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China