



Stat-Tech™ PP-CP1/000 HF6 Black

Polypropylene Impact Copolymer

Key Characteristics

Product Description

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

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Electrically Conductive • High Flow		
Uses	• Medical/Healthcare Applications		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.03	1.03	ASTM D792
Molding Shrinkage - Flow	0.016 in/in	1.6 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	250000 psi	1720 MPa	ASTM D638
Tensile Strength ² (Break)	3800 psi	26.2 MPa	ASTM D638
Tensile Elongation ² (Break)	2.0 %	2.0 %	ASTM D638
Flexural Modulus	250000 psi	1720 MPa	ASTM D790
Flexural Strength	4000 psi	27.6 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.250 in (6.35 mm), Injection Molded	3.0 ft·lb/in	160 J/m	ASTM D256A
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+4 ohms	1.0E+4 ohms	ASTM D257
Volume Resistivity	1.0E+2 ohms·cm	1.0E+2 ohms·cm	ASTM D257

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	400 to 460 °F	204 to 238 °C
Mold Temperature	100 to 140 °F	37.8 to 60.0 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

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