

## PolyOne Stat-Tech™ PP-16CP/000-2 HI Polypropylene, Unspecified (PP, Unspecified)

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Stat-Tech™ electrically conductive compounds are specifically engineered to provide anti-static, ESD and RFI/EMI shielding performance for critical electronic 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. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Stat-Tech-PP-16CP000-2-HI-Polypropylene-Unspecified-PP-Unspecified.php](http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-PP-16CP000-2-HI-Polypropylene-Unspecified-PP-Unspecified.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.998 g/cc	0.998 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
Melt Flow	5.0 - 8.0 g/10 min @Load 2.16 kg, Temperature 190 °C	5.0 - 8.0 g/10 min @Load 4.76 lb, Temperature 374 °F	Procedure A; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.5 MPa	3700 psi	ASTM D638
Elongation at Break	20 %	20 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	1.99 GPa	289 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	42.4 MPa	6150 psi	ASTM D790
Flexural Modulus	1.69 GPa	245 ksi	ASTM D790
Izod Impact, Notched	3.20 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	5.99 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C @Thickness 3.18 mm	208 °F @Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C @Thickness 3.18 mm	122 °F @Thickness 0.125 in	Annealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm - 1e+05	1000 ohm-cm - 1e+05	ASTM D257
Surface Resistance	1000 ohm - 1e+05	1000 ohm - 1e+05	ASTM D257
Static Decay	0.0020 sec	0.0020 sec	(Mil-B-81705C), 12% RH, 5000 kV to 50 kV

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 221 °C	390 - 430 °F	

Descriptive Properties	Value	Comments
Features	Antistatic	
	Conductive	
	Electrically Conductive	
	Statically Conductive	
Filler / Reinforcement	Carbon Powder, 16% Filler by Weight	
Forms	Pellets	
Generic Material	PP, Unspecified	
Generic Name	Polypropylene, Unspecified (PP, Unspecified)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Aerospace Applications	
	Automotive Electronics	
	Business Equipment	
	Computer Components	
	Connectors	

Descriptive Properties	Value	Comments
	Electrical Housing	
	Electrical/Electronic Applications	
	Housings	

## Contact Songhan Plastic Technology Co.,Ltd.

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