Stat-Tech™ ST9800-8015 CR ESD BK001

Polyetheretherketone

Key Characteristics

Product Description	
Carbon nanotube filled PEEK composites	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Features	• Electrically Conductive
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.31	1.31	ASTM D792
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength	13100 psi	90.0 MPa	ASTM D638
Flexural Modulus	522000 psi	3600 MPa	ASTM D790
Flexural Strength	21800 psi	150 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact	1.1 ft·lb/in	60 J/m	ASTM D256
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+5 to 1.0E+8 ohms	1.0E+5 to 1.0E+8 ohms	ASTM D257

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	302 to 320 °F	150 to 160 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	716 to 770 °F	380 to 410 °C
Mold Temperature	302 to 374 °F	150 to 190 °C

Notes

[1] Typical values are not to be construed as specifications.

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