

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.