

Parker Chomerics CHO-SEAL 1239 Conductive Elastomer

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone

Material Notes:

Material for waveguide choke, cover, and flange EMI shielding and pressure sealing; maximum heat transfer and minimum outgassing; hard (80 Shore A), high-strength material; available with raised lip around iris opening for high power/high pressure applications. Molded onlyRoHS Compliant Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-SEAL-1239-Conductive-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	4.00 - 5.50 g/cc	4.00 - 5.50 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	73 - 87	73 - 87	ASTM D2240
Tensile Strength at Break	>= 4.14 MPa	>= 600 psi	ASTM D412
Elongation at Break	>= 20 %	>= 20 %	ASTM D412
Tear Strength	12.25 kN/m	69.90 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.90 W/m-K @Pressure 2.07 MPa	13.2 BTU-in/hr-ft ² -°F @Pressure 300 psi	ASTM D5470
Maximum Service Temperature, Air	125 °C	257 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.0070 ohm-cm	0.0070 ohm-cm	as supplied without pressure sensitive adhesive; MIL-DLT-83528
Shielding Effectiveness	>= 70 dB @Frequency 200000 Hz	>= 70 dB @Frequency 200000 Hz	H Field; MIL-DTL-83528 Para.4.6.12
	>= 110 dB @Frequency 1.00e+8 Hz	>= 110 dB @Frequency 1.00e+8 Hz	E Field; MIL-DTL-83528 Para.4.6.12
	>= 110 dB @Frequency 5.00e+8 Hz	>= 110 dB @Frequency 5.00e+8 Hz	E Field; MIL-DTL-83528 Para.4.6.12
	>= 110 dB	>= 110 dB	

Electrical Properties	Metric	English	Comments
	@Frequency 2.00e+9 Hz	@Frequency 2.00e+9 Hz	Plane Wave; MIL-DTL-83528 Para.4.6.12
	>= 110 dB	>= 110 dB	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	Plane Wave; MIL-DTL-83528 Para.4.6.12

Descriptive Properties	Value	Comments
Binder	Silicone & Expanded Cu Foil	
EMP Survivability	>0.9 kA / in	MIL-DTL-83528 Para.4.6.16
Filler	Ag/Cu	
Heat Aging	<0.01ohm-cm	MIL-DTL-83528 Para.4.6.15
Type	G	MIL-DTL-83528
Vibration Resistance, After	<0.007 ohm-cm	MIL-DTL-83528 Para.4.6.13

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