

Parker Chomerics CHO-SEAL 1215 Conductive Elastomer

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

Material Notes:

Resists highest level of EMP induced current; military gasket of choice in non-corrosive environments; excellent processing for molding and extrusion. Molded and ExtrudedRoHS Compliant Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-SEAL-1215-Conductive-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.05 - 3.95 g/cc	3.05 - 3.95 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58 - 72	58 - 72	
Tensile Strength at Break	>= 1.38 MPa	>= 200 psi	ASTM D412
Elongation at Break	100 - 300 %	100 - 300 %	ASTM D412
Tear Strength	4.38 - 7.01 kN/m	25.0 - 40.0 pli	ASTM D624
Compression Set	<= 32 % @Temperature 100 °C, Time 252000 sec	<= 32 % @Temperature 212 °F, Time 70.0 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.10 W/m-K @Pressure 2.07 MPa	14.6 BTU-in/hr-ft ² -°F @Pressure 300 psi	ASTM D5470
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-65.0 °C	-85.0 °F	TR10; ASTM D1329

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.0040 ohm-cm	0.0040 ohm-cm	as supplied without pressure sensitive adhesive; MIL-DLT-83528
	0.0080 ohm-cm	0.0080 ohm-cm	Post Tensile Set; MIL-DLT-83528
Shielding Effectiveness	>= 70 dB @Frequency 200000 Hz	>= 70 dB @Frequency 200000 Hz	H Field; MIL-DLT-83528 Para.4.6.12
	>= 90 dB @Frequency 4.00e+10	>= 90 dB @Frequency 4.00e+10	Plane Wave; MIL-DLT-83528 Para.4.6.12

Electrical Properties	Hz Metric	Hz English	Comments
	>= 120 dB	>= 120 dB	
	@Frequency 1.00e+8 Hz	@Frequency 1.00e+8 Hz	E Field; MIL-DLT-83528 Para.4.6.12
	>= 120 dB	>= 120 dB	
	@Frequency 5.00e+8 Hz	@Frequency 5.00e+8 Hz	E Field; MIL-DLT-83528 Para.4.6.12
	>= 120 dB	>= 120 dB	
	@Frequency 2.00e+9 Hz	@Frequency 2.00e+9 Hz	Plane Wave; MIL-DLT-83528 Para.4.6.12
	>= 120 dB	>= 120 dB	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	Plane Wave; MIL-DLT-83528 Para.4.6.12

Descriptive Properties	Value	Comments
Binder	Silicone	
EMP Survivability	>0.9 kA / in	MIL-DTL-83528 Para.4.6.16
Filler	Ag/Cu	
Heat Aging	<0.01 ohm-cm	MIL-DTL-83528 Para.4.6.15
Type	A	MIL-DTL-83528
Vibration Resistance, After	<0.004 ohm-cm	MIL-DTL-83528 Para.4.6.13
Vibration Resistance, During	<0.006 ohm-cm	MIL-DTL-83528 Para.4.6.13

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