

Parker Chomerics CHO-SEAL 1224 Conductive Elastomer

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

Material Notes:

Highest shielding effectiveness and through conductivity performance; higher physical properties; excellent processing; also available in a fabric reinforced format. Molded only RoHS Compliant Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-SEAL-1224-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	ASTM D2240
Tensile Strength at Break	>= 2.07 MPa	>= 300 psi	ASTM D412
Elongation at Break	200 - 500 %	200 - 500 %	ASTM D412
Tear Strength	8.75 kN/m	49.9 pli	ASTM D624
Compression Set	45 % @Temperature 100 °C, Time 252000 sec	45 % @Temperature 212 °F, Time 70.0 hour	ASTM D395, Method B

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.80 W/m-K @Pressure 2.07 MPa	19.4 BTU-in/hr-ft ² -°F @Pressure 300 psi	ASTM D5470
Maximum Service Temperature, Air	200 °C	392 °F	
Minimum Service Temperature, Air	-65.0 °C	-85.0 °F	Flex TR10; ASTM D1329

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.0020 ohm-cm	0.0020 ohm-cm	as supplied without pressure sensitive adhesive; MIL-DTL-83528
	0.010 ohm-cm	0.010 ohm-cm	Post Tensile Set; MIL-DTL-83528 Para.4.6.9
Shielding Effectiveness	>= 70 dB @Frequency 200000 Hz	>= 70 dB @Frequency 200000 Hz	H Field; MIL-DTL-83528 Para.4.6.12
	>= 120 dB @Frequency 1.00e+8	>= 120 dB @Frequency 1.00e+8	E Field; MIL-DTL-83528 Para.4.6.12

Electrical Properties	Hz Metric	Hz English	Comments
	>= 120 dB	>= 120 dB	
	@Frequency 5.00e+8 Hz	@Frequency 5.00e+8 Hz	E Field; MIL-DTL-83528 Para.4.6.12
	>= 120 dB	>= 120 dB	
	@Frequency 2.00e+9 Hz	@Frequency 2.00e+9 Hz	Plane Wave; MIL-DTL-83528 Para.4.6.12
	>= 120 dB	>= 120 dB	
	@Frequency 1.00e+7 Hz	@Frequency 1.00e+7 Hz	Plane Wave; MIL-DTL-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	
Heat Aging	<0.01 ohm-cm	MIL-DTL-83528 Para.4.6.15
Type	E	MIL-DTL-83528
Vibration Resistance, After	<0.002 ohm-cm	MIL-DTL-83528 Para.4.6.13
Vibration Resistance, During	<0.01 ohm-cm	MIL-DTL-83528 Para.4.6.13

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