

Parker Chomerics CHO-FORM 5541 Conductive Form-In-Place Gaskets

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

Material Notes:

Description: A range of conductive particle technologies combined with thermoset and RTV silicone systems provide a material selection for most opportunities. Multiple filler grades balance material cost versus performance and can provide low cost alternatives for less demanding applications. Chomerics corrosion resistant materials inherently provide protection against galvanic activity. They may eliminate the need for nickel or tin plating and or secondary environmental gaskets. Chomerics general purpose materials exhibit excellent electrical and mechanical properties on metallic and shield plastic housing. Chomerics silver filled materials provide high shielding and conductivity critical for inter-compartmental shields. CHOFORM delivers a greater deflection range, lower deflection forces & improved reliability. Features: Lower deflection forces and a broad deflection range, Corrosion resistant materials can eliminate plating or secondary environmental gasket, Good adhesion to many substrates, Supply chain management providing ongoing logistics, Low cost and rapid prototyping and Corrosion Resistant, High Temp. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-FORM-5541-Conductive-Form-In-Place-Gaskets.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.40 g/cc	2.40 g/cc	ASTM D792
Viscosity	1.70e+6 cP	1.70e+6 cP	
Deformation	30 %	30 %	141.8 N/cm; ASTM D575 Modified

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75 - 79	75 - 79	ASTM DD2240
Tensile Strength at Break	3.10 - 3.45 MPa	450 - 500 psi	ASTM D412
Elongation at Break	125 %	125 %	ASTM D412
Compression Set	30 %	30 %	ASTM D395 Method B
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	
	40 %	40 %	ASTM D395 Method B
	@Temperature 85.0 °C, Time 79200 sec	@Temperature 185 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 °C	302 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.020 ohm-cm	0.020 ohm-cm	Initial; Chomerics MAT-1002
	0.030 ohm-cm	0.030 ohm-cm	Chomerics MAT-1002
	0.040 ohm-cm	0.040 ohm-cm	Aged; Chomerics MAT-1002
Shielding Effectiveness	65 - 70 dB	65 - 70 dB	
	@Frequency 2.00e+8 - 1.20e+10 Hz	@Frequency 2.00e+8 - 1.20e+10 Hz	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	Tack Free Time
	@Temperature 150 °C	@Temperature 302 °F	
	30.0 min	0.500 hour	Handling Time
	@Temperature 150 °C	@Temperature 302 °F	
	30.0 min	0.500 hour	Full Cure
	@Temperature 150 °C	@Temperature 302 °F	
Shelf Life	6.00 Month	6.00 Month	Chomerics
	@Temperature -12.0 - -8.00 °C	@Temperature 10.4 - 17.6 °F	

Descriptive Properties	Value	Comments
Adhesion	10-12 N/cm	Trivalent Chromate Coating on Aluminum
Binder	Silicone	
Cure System	Thermal	
Filler	Nickel-plated graphite (Ni/C)	
Flow Rate	0.85 - 1.15 grams/min	Chomerics - MAT-1200
Galvanic Corrosion	32 mg	Resistance Against Aluminum; Chomerics TM-100
Number of Components	1	

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