CHO-SEAL 6370

Flame Retardant (Ni/C) Conductive Silicone Elastomer

Supplied by:
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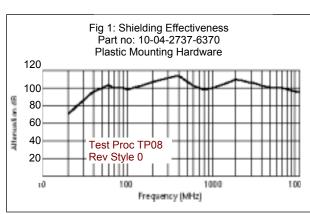
CHO-SEAL 6370 EMI gaskets are conductive elastomers engineered for use in commercial electronic equipment where a high degree of flame retardance and corrosion resistance are needed. These gaskets are available with a UL 94V-0 rating (UL File# 96ME17043). The material offers moderate to high performance for commercial applications. These gaskets help provide cost-effective compliance with government and industry EMC standards, including FCC, EN and VCCI requirements.

CHO-SEAL 6370 gaskets are both flame retardant and corrosion resistant. Flame retarding properties are achieved while maintaining shielding effectiveness equal to or better than other EMI gaskets.

CHO-SEAL 6370 gaskets are available in all standard extrusion profiles including a wide range of hollow "O", "P", "V" and "D" profiles. They can be supplied in bulk on rolls, cut to a specified length or as spliced rings. Several attachment meth-ods are available, including pressure-sensitive adhesive (PSA). Custom profiles are also available.

FEATURES

- UL94 V-0 flammability rating at .014 in. thickness (min.)
- Greater than 100 dB shielding from 50 MHz to 10 GHz (see Figure 1)
- Corrosion resistant Nickel Graphite based formulation
- PSA attachment is an option with most cross sections



Molded (M) or Extruded (E)						
Conductive Filler						
Page	Physical	Molded (M) or Extruded (E)			E	
Type (Ref. MIL-DTL-83528)		Conductive Filler			Ni/C	
Type (Ref. MIL-DTL-83528)		Elastomer Binder			Silicone	
Not Applicable MIL-DTL-83528 Not Applicable ASTM D2240 (Q/C) Applicable ASTM D2240 (Q/C) Applicable ASTM D2240 (Q/C) Applicable ASTM D722 (Q/C) 2.10 ± 0.25 Tensile Strength, psi (MPa), min. ASTM D412 (Q/C) 150 (1.03) Elongation, % min. or % min/max. ASTM D412 (Q/C) 100 Tear Strength, Ib/in. (kN/m), min. ASTM D624 (Q) 35 (6.13) ASTM D395, Method B (Q) ASTM D395, Method B (Q) ASTM D395, Method B (Q) ASTM D1329 (Q) -45 ASTM D1329 (Q) ASTM D1329 (Q) -45 ASTM D		Type (Ref. MIL-DTL-83528)				
Sensitive adhesive MIL-DTL-83528 Not (Q/C) Applicable		supplied without pressure				
Hardness, Shore A ASTM D2240 (D/C) 60 ±10				(Q/C)	Applicable	
Tensile Strength, psi (MPa), min. Elongation, % min. or % min/max. Tear Strength, lb/in. (kN/m), min. Compression Set, 70 hrs at 100°C, % max. ∞ Low Temperature Flex TR10, °C, min. Maximum Continuous Use Temperature, °C ™ Thermal Conductivity, W/m-K (Typical) 300 psi (2.07 MPa) Shielding Effectiveness, dB, min. Ø 200 kHz (H Field) 100 MHz (E Field) 100 MHz (E Field) 2 GHz (Plane Wave) 40 GHz (Plane Wave) Heat Aging Method 3: CH0-TP09° (Q) MIL-DTL-83528 Para. 4.5.12 (Q) METhod 3: CH0-TP09° (Q) MIL-DTL-83528 Not Applicable Resistance During Vibration Resistance After Vibration Post Tensile Set Volume Resistivity MIL-DTL-83528 Para. 4.5.13 (Q) Post Tensile Set Volume Resistivity MIL-DTL-83528 Para. 4.5.13 (Q) Applicable MIL-DTL-83528 Not Applicable MIL-DTL-83528 Not Applicable Not Applicable MIL-DTL-83528 Para. 4.5.13 (Q) Applicable Not Applicable Not Applicable Not Applicable Not Applicable MIL-DTL-83528 Para. 4.5.16 (Q) Applicable MIL-DTL-83528 Para. 4.5.16 (Q) Applicable Not Applicable Not Applicable MIL-DTL-83528 Para. 4.5.16 (Q) Applicable Not Applicable Not Applicable MIL-DTL-83528 Para. 4.5.16 (Q) Applicable		Hardness, Shore A				
Elongation, % min. or % min/max.		Specific Gravity				
Tear Strength, Ib/in. (kN/m), min. Compression Set, 70 hrs at 100 °C, % max. № Low Temperature Flex TR10, °C, min. Maximum Continuous Use Temperature, °C ™ Thermal Conductivity, W/m-K (Typical) 300 psi (2.07 MPa) Shielding Effectiveness, dB, min. № Shielding Effectiveness, dB, min. № 200 kHz (H Field) 100 MHz (E Field) 200 kHz (Field) 100 MHz (E Field) 2 GHz (Plane Wave) 10 GHz (Plane Wave) 40 GHz (Plane Wave) Heat Aging MIL-DTL-83528 Para. 4.5.12 (Q) Post Tensile Set Volume Resistance After Vibration Post Tensile Set Volume Resistivity EMP Survivability, KA per in. perimeter RoHS Compliant ASTM D542 (Q) 40 ASTM D5470 ASTM		Tensile Strength, psi (MPa), min.				
Compression Set, 70 hrs at 100°C, % max. W Method B (Q) 40		Elongation, % min. or % min./max.		ASTM D412 (Q/C)		
To hrs at 100°C, % max. (w) Method B (Q) 40 40 40 40 40 40 40 4					35 (6.13)	
*C, min.					40	
Thermal Conductivity, W/m-K (Typical) 300 psi (2.07 MPa) Shielding Effectiveness, dB, min. (*) Shielding Effectiveness, dB, min. (*) 200 kHz (H Field) 100 MHz (E Field) 500 MHz (E Field) 2 GHz (Plane Wave) 40 GHz (Plane Wave) Heat Aging Heat Aging Heat Aging MIL-DTL-83528 Para. 4.5.15 (Q/C) MIL-DTL-83528 Para. 4.5.15 (Q/C) MIL-DTL-83528 Para. 4.5.15 (Q/C) MIL-DTL-83528 Para. 4.5.15 (Q/C) MIL-DTL-83528 Para. 4.5.13 (Q) Applicable Resistance After Vibration Post Tensile Set Volume Resistivity EMP Survivability, kA per in. perimeter ROHS Compliant ASTM D5470 0.9 Method 1: Method 1: Method 1: Method 2: MIL-DTL-83528 Para. 4.5.12 (Q) MIL-DTL-83528 Para. 4.5.15 (Q/C) Applicable Not Applicable Not Applicable Applicable Para. 4.5.9 (Q/C) Applicable Applicable For Survivability, KA per in. perimeter ROHS Compliant Yes	Thermal	°C, min.		ASTM D1329 (Q)	-45	
W/m-K (Typical) 300 psi (2.07 MPa) ASTM D54/0 U.9		Maximum Continuous Use Temperature, °C ⁽⁶⁾			150	
200 kHz (H Field) 100 MHz (E Field) 100 Method 2: MIL-DTL-83528 Para. 4.5.12 (Q) 95 95 100 GHz (Plane Wave) 95 Method 3: CH0-TP09° (Q) Not Tested 100 Post Tensile Set Volume Resistivity Para. 4.5.13 (Q) Applicable Post Tensile Set Volume Resistivity Para. 4.5.19 (Q/C) Applicable Para. 4.5.19				ASTM D5470	0.9	
100 MHz (E Field) 100 10	Electrical	Shielding Effectiveness, dB, min. o			Method 1	
Method 2: MIL-DTL-83528 100 95 10 GHz (Plane Wave) 95 Wethod 3: CH0-TP09° (Q) Not Tested CEPS-0002° (Q) O.250° MIL-DTL-83528 Not Para. 4.5.15 (Q/C) Applicable Applicable Applicable Resistance After Vibration Post Tensile Set Volume Resistivity Para. 4.5.19 (Q/C) Applicable App		200 kHz (H Field)		CHO-TP08°(Q)	Not Tested	
2 GHz (Plane Wave) 10 GHz (Plane Wave) 40 GHz (Plane Wave) Heat Aging Heat Aging MIL-DTL-83528 Para. 4.5.15 [Q/C) Para. 4.5.15 [Q/C) Resistance During Vibration Resistance After Vibration Post Tensile Set Volume Resistivity EMP Survivability, KA per in. perimeter ROHS Compliant MIL-DTL-83528 Not Applicable MIL-DTL-83528 Para. 4.5.13 [Q] Applicable MIL-DTL-83528 Para. 4.5.13 [Q] Applicable MIL-DTL-83528 Para. 4.5.13 [Q] Applicable Not Applicable Applicable Para. 4.5.9 [Q/C] Applicable ROHS Compliant Yes		100 MHz (E Fiield)		Method 2: -	100	
Method 3: CH0-TP09c (Q) Not Tested		500 MHz (E Fiield)			100	
Method 3: CHO-TP09° [Q] Not Tested		2 GHz (Plane Wave)		Para. 4.5.12 (Q)		
Heat Aging CEPS-0002 Q O.250		10 GHz (Plane Wave)		Method 3:	95	
MIL-DTL-83528 Not Applicable Resistance During Vibration Resistance After Vibration Post Tensile Set Volume Resistivity EMP Survivability, KA per in. perimeter ROHS Compliant MIL-DTL-83528 Not Applicable Para. 4.5.19 (Q/C) Applicable Para. 4.5.16 (Q) Applicable		40 GHz (Plane Wave)			Not Tested	
Resistance During Vibration Resistance After Vibration Post Tensile Set Volume Resistivity Resistivity Resistance MIL-DTL-83528 Para. 4.5.13 (Q) Post Tensile Set Volume Resistivity Resistivity Resistance After Vibration Post Tensile Set Volume Resistivity Resistivity Resistivity Resistance After Vibration Resistance		Electrical Stability, ohm-cm, max.	Heat Aging			
Post Tensile Set Volume Resistivity Para. 4.5.16 (Q) Applicable EMP Survivability, MIL-DTL-83528 Not Applicable EMP Survivability, MIL-DTL-83528 Not Applicable RoHS Compliant Para. 4.5.16 (Q) Applicable RoHS Compliant Yes						
Post Tensile Set Volume Resistivity Para. 4.5.9 (Q/C) Applicable EMP Survivability, MIL-DTL-83528 Not Applicable EMP Survivability, MIL-DTL-83528 Not Applicable RoHS Compliant Para. 4.5.16 (Q) Applicable RoHS Compliant Yes						
Post Tensile Set Volume Resistivity Para. 4.5.16 (Q) Applicable EMP Survivability, MIL-DTL-83528 Not Applicable EMP Survivability, MIL-DTL-83528 Not Applicable RoHS Compliant Para. 4.5.16 (Q) Applicable RoHS Compliant Yes			Resistance During Vibration	Para. 4.5.13 (Q)		
Resistivity Para. 4.5.9 (Q/C) Applicable EMP Survivability, MIL-DTL-83528 Not Applicable RoHS Compliant Yes			Resistance After Vibration			
kA per in. perimeter Para. 4.5.16 (Q) Applicable ROHS Compliant Yes						
8	Regulatory					
		RoHS Compliant			Yes	
UL 94 Flammability Rating UL 94 V-0		UL 94 Flammability Rating		UL 94	V-0	

