


**Elastomer Binder Legend**

Silicone      Fluorosilicone      EPDM      Fluorocarbon/  
Fluorosilicone



**Elastomer Filler Legend**

Corrosion Resistant on Aluminum




Table 7: Material Guidelines - Military and Commercial								
		Test Procedure (Type of Test)	CHO-SEAL 1221	CHO-SEAL 1224	CHO-SEAL 6502	CHO-SEAL 6503	CHO-SEAL 1298	CHO-SEAL 1285
Physical	Molded (M) or Extruded (E)	--	M	M	M/E	M/E	M/E	M/E
	Conductive Filler	--	Ag	Ag	Ni/Al	Ni/Al	Passivated Ag/Al	Ag/Al
	Elastomer Binder	--	Fluorosilicone	Silicone	Silicone	Fluorosilicone	Fluorosilicone	Silicone
	Type (Ref. MIL-DTL-83528) <sup>(U)</sup>	--	Type F	Type E	Not Applicable	Not Applicable	Type D	Type B
	Volume Resistivity, ohm-cm, max., as supplied without pressure sensitive adhesive	CEPS-0002 <sup>c</sup> (Q/C)	Not Applicable	Not Applicable	0.150	0.250	Not Applicable	Not Applicable
		MIL-DTL-83528 (Q/C)	0.002	0.002	Not Applicable	Not Applicable	0.012	0.008
	Hardness, Shore A	ASTM D2240 (Q/C)	75 ±7	65 ±7	68 ±10	72 ±10	70 ±7	65 ±7
	Specific Gravity	ASTM D792 (Q/C)	4.00 ±0.50	3.50 ±0.45	1.85 ± 0.25	2.05 ± 0.25	2.00 ± 0.25	2.00 ± 0.25
	Tensile Strength, psi (MPa), min.	ASTM D412 (Q/C)	250 (1.72)	300 (2.07)	150 (1.03)	150 (1.03)	180 (1.24)	200 (1.38)
	Elongation, % min. or % min./max.	ASTM D412 (Q/C)	100/300	200/500	100 min	50 min	60/260	100/300
	Tear Strength, lb/in. (kN/m), min.	ASTM D624 (Q)	40 (7.00)	50 (8.75)	40 (7.00)	35 (6.13)	35 (6.13)	30 (5.25)
Compression Set, 70 hrs at 100°C, % max. <sup>(A)</sup>	ASTM D395, Method B (Q)	60	45	30	30	30	32	
Thermal	Low Temperature Flex TR10, °C, min.	ASTM D1329 (Q)	-65	-65	-55	-55	-55	-65
	Maximum Continuous Use Temperature, °C <sup>(B)</sup>	--	160/200	160/200	125	125	160/200	160/200
	Thermal Conductivity, W/m-K (Typical) 300 psi (2.07 MPa)	ASTM D5470	Not Tested	2.8	1.0	0.9	1.2	2.2
Electrical	Shielding Effectiveness, dB, min. <sup>(F)</sup>	Method 1: CHO-TM-TP08 <sup>c</sup> (Q)	Method 2	Method 2	Method 3	Method 3	Method 2	Method 2
		200 kHz (H Field)	70	70	Not Tested	Not Tested	55	60
		100 MHz (E Field)	120	120	100	95	110	115
		500 MHz (E Field)	120	120	Not Tested	Not Tested	100	110
		2 GHz (Plane Wave)	120	120	110	110	95	105
		10 GHz (Plane Wave)	120	120	85	100	90	100
		40 GHz (Plane Wave)	Method 3: CHO-TM-TP09 <sup>c</sup> (Q)	Not Tested				75
	Electrical Stability, ohm-cm, max.	Heat Aging	CEPS-0002 <sup>c</sup> (Q)	Not Applicable	Not Applicable	0.200 <sup>(H)</sup>	0.250 <sup>(H)</sup>	Not Applicable
MIL-DTL-83528 Para. 4.6.15 (Q/C)			0.010	0.010	Not Applicable	Not Applicable	0.015	0.010
Resistance During Vibration		MIL-DTL-83528 Para. 4.6.13 (Q)	0.010	0.010	Not Applicable	Not Applicable	0.015	0.012
Resistance After Vibration		MIL-DTL-83528 Para. 4.6.13 (Q)	0.002	0.002	Not Applicable	Not Applicable	0.012	0.008
Post Tensile Set Volume Resistivity		MIL-DTL-83528 Para. 4.6.9 (Q/C)	0.010	0.010	Not Applicable	Not Applicable	0.015	0.015
Regulatory	EMP Survivability, kA per in. perimeter	MIL-DTL-83528 Para. 4.6.16 (Q)	>0.9	>0.9	Not Applicable	Not Applicable	>0.9	>0.9
	RoHS Compliant	--	Yes	Yes	Yes	Yes	Yes	Yes
	UL 94 Flammability Rating	--	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested