

# CONDUCTIVE ELASTOMER SPECIFICATIONS (grouped by filler)

		Test Procedure (Type of Test)	CHO-SEAL L6303	CHO-SEAL S6304	CHO-SEAL S6305	CHO-SEAL 6370 <sup>5</sup>				
Conductive Filler			Ni/C	Ni/C	Ni/C	Ni/C				
Elastomer Binder			Fluoro-silicone	Silicone	Silicone	Silicone				
Type (Ref. MIL-G-83528)			—	—	—	—				
Volume Resistivity, ohm-cm, max. as supplied (without pressure-sensitive adhesive)		CEPS-0002 <sup>a</sup>	—	—	—	0.1				
		MIL-G-83528 Para. 4.6.11	0.1	0.1	0.1	—				
Hardness (Shore A)		ASTM D2240 (Q/C)	65 ±10	55 ±10	65 ±10	60 ±10				
Specific Gravity (±0.25)		ASTM D792 (Q/C)	2.2	1.9	2.0	2.1				
Tensile Strength, psi (MPa), min.		ASTM D412 (Q/C)	150 (1.03)	150 (1.03)	200 (1.38)	150 (1.03)				
Elongation, % min. or % min./max.		ASTM D412 (Q/C)	60	100	100	100				
Tear Strength, lb/in. (kN/m), min.		ASTM D624 (Q)	35 (6.13)	35 (6.13)	50 (8.75)	35 (6.13)				
Compression Set, 70 hrs @ 100°C, % max. <sup>b</sup>		ASTM D395 Method B (Q)	25	30	30	40				
Low Temperature Flex TR10, °C, min.		ASTM D1329 (Q)	-45	-45	-45	-45				
Maximum Continuous Use Temperature, °C <sup>c</sup>		(Q)	150	150	150	150				
Shielding Effectiveness (see Note below)	dB, min.		Method (1) CHO-TM-TP08 <sup>a</sup>	Method (2)	Method (1)	Method (1)	Method (1)			
			200 kHz (H Field)	NA	NA	NA	—			
			100 MHz (E Field)	100	100	100	100			
			500 MHz (E Field)	100	100	100	100			
			2 GHz (Plane Wave)	100	100	100	95			
Electrical Stability		ohm-cm, max.		Method (2) MIL-G-83528 Para 4.6.12 (Q)	100	100	100	95		
				10 GHz (Plane Wave)	100	100	100	95		
				Heat Aging		CEPS-0002 <sup>a</sup>	0.25 <sup>i</sup>	0.25 <sup>i</sup>	0.25 <sup>i</sup>	0.25 <sup>i</sup>
						MIL-G-83528 Para 4.6.15 (Q/C)	—	—	—	—
				Vibration Resistance	During	MIL-G-83528 (Q)	0.1	NS	0.1	—
After	MIL-G-83528 Para 4.6.13 (Q)	0.1	NS		0.1	—				
Post Tensile Set Volume Resistivity		MIL-G-83528 Para. 4.6.9 (Q/C)	—	—	—	—				
EMP Survivability, kA per in. perimeter		MIL-G-83528 Para. 4.6.16 (Q)	0.1	0.1	0.1	—				