Cho-Seal 1215

Conductive Silicone EMI/EMP Gasket

Cho-Seal 1215 material is a Military – Aerospace graded silver covered, copper filled, tan coloured, silicone elastomer which provides pressure as well as the high levels of EMI shielding. Resists highest level ofEMP induced current, is the military gasket of choice in non-corrosive environments and excellent processing for molding and extrusion. Cho-Seal 1215 elastomer is rated for continuous use from minus 65° to +125° Centigrade (-85° to 257°F), and will retain its electrical properties during vibration and EMP environments

Cho-Seal 1215 is available in sheet, die-cut, molded and extruded forms. It is extremely stable over time, and provides more than 120dB of shielding effectiveness to 40GHz.

Recommended Storage

Cho-Seal 1215 elastomer should be stored in its sealed plastic package in a sulphur free environment. Exposure to high sulphur content environments can result in an increase in resistivity.

Shelf Life

Shelf life without pressure sensitive adhesive - indefinate
Shelf life with pressure sensitive adhesive - 2 years from DOM

Specifications	Test Procedure	Cho-Seal 1215
Type (Ref MiL G 83528)		Type A
Volume resistivity (ohm-cm max) without psa	MiL G 83528 Para. 4.6.11	0.004
Durometer (Shore A ±5)	ASTM D2240	65-72
Specific Gravity (±0.25)	ASTM D792	3.05 - 3.95g/cc
Tensile Strength Psi. min. (MPa)	ASTM D412	200 (1.38)
Elongation (% min/max)	ASTM D412	100 / 300
Tear Strength lb./in. min (kN/m)	ASTM D624	4.38 - 7.01
Compression Set 70 hours @100°C (% max)	ASTM D395 Method B	30
Minimum Continuous Use Temperature (°C)		-65
Maximum Continuous Use Temperature (°C)		125 (140 intermittent)
Shielding Effectiveness		**dB min**
200 kHz (H Field)	MiL G 83528 Para 4.6.12	70
100 MHz (E Field)	MiL G 83528 Para 4.6.12	120
500 MHz (F Field)	MiL G 83528 Para 4.6.12	120
2 GHz (Plane Wave)	MiL G 83528 Para 4.6.12	120
10 GHz (Plane Wave)	MiL G 83528 Para 4.6.12	120
Heat Ageing	MiL G 83528 Para 4.6.15	0.010 ohm-cm max
Vibration resistance During/After	MiL G 83528 Para 4.6.13	0.004 / 0.008 ohm-cm max
Post Tensile Set Volume Resistivity	MiL G 83528 Para 4.6.9	0.008 ohm-cm max
EMP Survivability kA per in. perimeter	MiL G 83528 Para 4.6.16	>0.9
*Outgassing - No Post Curing	ASTM E595-93	TML % 0.45 - CVCM % 0.10

*NASA GSFG Data Reference 15142

PROTECTING YOUR ELECTRONICS.