

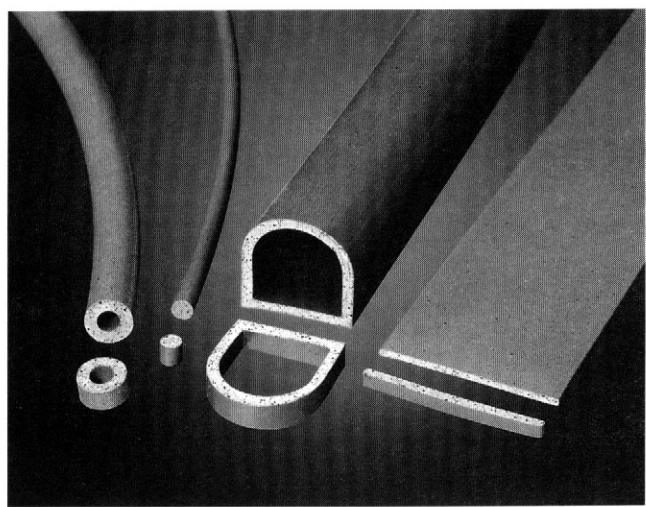
- Conductive elastomers • Knitted wire mesh
- Conductive coatings, sealants, adhesives
- Cable shielding products • EMI/ESD shielding laminates
- Shielded vents and windows
- Commercial and military EMI testing



LEADER IN EMI SHIELDING INNOVATION, DESIGN, AND TEST TECHNOLOGY

CHO-SEAL® E6434E

Extruded Conductive EPDM Elastomer



DESCRIPTION

CHO-SEAL E6434E EMI gaskets are extruded conductive elastomers engineered for resistance to harsh chemicals, specifically those associated with decontaminates for military Nuclear, Biological, and Chemical (NBC) requirements. These gaskets are available in continuous extruded profiles for EMI gasketing of large areas. High levels of EMI shielding, greater than 90 dB up to 10 GHz, coupled with good environmental requirement compliance, also allow this non-silicone elastomer gasketing to be used wherever silicone migration issues are present.

CHO-SEAL E6434E EMI gaskets are silver-plated nickel filled EPDM elastomers. They are supplied in a range of extruded profiles on bulk rolls, cut to a specified length, or as spliced rings. Design parameters for extruded CHO-SEAL E6434E are as follows: minimum cross-sectional area, 0.060 square inches; minimum wall thickness, 0.062 inches; and maximum surface area: cross sectional area ratio, 115.

| SPECIFICATIONS | | Test Procedure | CHO-SEAL E6434E | | |
|-------------------------------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|------|
| Grade | | — | Military-Aerospace | | |
| Type (Ref. MIL-G-83528) | | — | N/A | | |
| Elastomer Binder | | — | EPDM | | |
| Conductive Filler | | — | Ag/Ni | | |
| Volume Resistivity (ohm-cm, max.) as supplied (without psa) | | MIL-G-83528 Para. 4.6.11 | .05 | | |
| Hardness (Shore A ±7) | | ASTM D2240 | 80 | | |
| Specific Gravity (±0.25) | | ASTM D792 | 3.8 | | |
| Tensile Strength psi, min. (MPa) | | ASTM D412 | 200 (1.34) | | |
| Elongation (percent, min.) | | ASTM D412 | 100 | | |
| Tear Strength lb./in. min. (kN/m) | | ASTM D624 | 70 (12.26) | | |
| Compression Set 70 hrs @ 100°C (percent, max.) | | ASTM D395 Method B | 40 | | |
| Low Temperature Flex, TR10 (°C, min.) | | ASTM D1329 | -45 | | |
| Maximum Continuous Use Temperature (°C) | | — | 100 | | |
| Shielding Effectiveness | 20MHz-10GHz | (dB, min.) | MIL-G-83528 Para. 4.6.12 | >90 | |
| | | | | | |
| Electrical Stability | Heat Aging | (ohm-cm, max.) | MIL-G-83528 Para. 4.6.15 | 0.05 | |
| | Vibration Resistance | | During | MIL-G-83528 Para. 4.6.13 | 0.05 |
| | | | After | | 0.05 |
| | Post Tensile Set Volume Resistivity | | MIL-G-83528 Para. 4.6.9 | N/A | |
| EMP Survivability (kA per in. perimeter) | MIL-G-83528 Para. 4.6.16 | | 0.05 | | |



www.chomerics.com

Chomerics, Div. of Parker Hannifin
77 Dragon Court
Woburn, MA 01888-4014
Tel: 781-935-4850
FAX: 781-933-4318



Parker Hannifin PLC
Chomerics Europe
Parkway, Globe Park
Marlow, Bucks, SL7 1YB, United Kingdom
Tel: (44) 1628 404000 FAX: (44) 1628 404090
France Freephone Tel: (0590) 8170
Germany Freephone Tel: (0130) 818074



Parker Hannifin Hong Kong Ltd.
Chomerics Sales Department
8/F King Yip Plaza
9 Cheung Yee Street, Cheung Sha Wan
Kowloon, Hong Kong
Tel: (852) 2428 8008
Fax: (852) 2480 4256

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