



EMI Shielding and Thermal Management Materials

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Part Numbering for Extruded Products

Example: 10-04-1687-1215

Part Number:



10 = Extrusion type
19 = Extrusion type

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04 = Round
05 = D-shaped
06 = P-shaped
07 = Rectangular
08 = U-Channel
09 = Custom
18 = Co-extrusion
20 = PSA tape applied
22 = Die cut
23 = Kiss cut
24 = Bonded assembly

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ZZZZZ = Cross section serial
number (i.e., 1687)





—



XXXX = Material Type
(i.e., 1215)

Extrusion Product Guide

Materials Guidelines

| Elastomer Binder Legend | | | |
|---|---|---|---|
| Silicone | Fluorosilicone | EPDM | Fluorocarbon/ Fluorosilicone |
|  |  |  |  |

| 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 | |
| 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) | -- | 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 ^c (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 | 65 ±10 | 74 ±7 | 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 | 65 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. ^(A) | 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 ^(B) | -- | 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. ^(F) | Method 1: CHO-TM-TP08 ^c (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) | Method 2: MIL-DTL-83528 Para. 4.6.12 (Q) | 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) | Method 3: CHO-TM-TP09 ^c (Q) | 120 | 120 | 85 | 100 | 90 | 100 |
| | 40 GHz (Plane Wave) | | Not Tested | | | 75 | Not Tested | |
| Electrical Stability, ohm-cm, max. | | | | | | | | |
| Regulatory | Heat Aging | CEPS-0002 ^c (Q) | Not Applicable | Not Applicable | 0.200 ^(H) | 0.250 ^(H) | Not Applicable | 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 |
| 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 | |



Elastomer Binder Legend

Silicone



Fluorosilicone



EPDM



Fluorocarbon/
Fluorosilicone



continued...Table 7: Material Guidelines - Military and Commercial

| | | Test Procedure (Type of Test) | CHO-SEAL® 1287 | CHO-SEAL® 1215 | CHO-SEAL® 1217 | CHO-SEAL® 1270 | CHO-SEAL® 1273 | CHO-SEAL® S6305 |
|---|---|---|-------------------|-----------------------|-------------------|--------------------|-------------------|--------------------|
| Physical | Molded (M) or Extruded (E) | -- | M/E | M/E | M/E | M | M/E | M/E |
| | Conductive Filler | -- | Ag/Al | Ag/Cu | Ag/Cu | Ag/Cu | Ag/Cu | Ni/C |
| | Elastomer Binder | -- | Fluorosilicone | Silicone | Fluorosilicone | Silicone | Silicone | Silicone |
| | Type (Ref. MIL-DTL-83528) | -- | Type D | Type A | Type C | Not Applicable | Not Applicable | Not Applicable |
| | Volume Resistivity, ohm-cm, max., as supplied without pressure sensitive adhesive | CEPS-0002 ^c (Q/C) | Not Applicable | Not Applicable | Not Applicable | 0.050 | 0.004 | 0.100 |
| | | MIL-DTL-83528 (Q/C) | 0.012 | 0.004 | 0.010 | Not Applicable | Not Applicable | Not Applicable |
| | Hardness, Shore A | ASTM D2240 (Q/C) | 70 ±7 | 65 ±7 | 75 ±7 | 40 ±7 | 65 ±8 | 65 ±10 |
| | Specific Gravity | ASTM D792 (Q/C) | 2.00 ± 0.25 | 3.50 ±0.45 | 4.00 ± 0.50 | 2.90 ± 0.25 | 3.70 ± 0.25 | 2.00 ± 0.25 |
| | Tensile Strength, psi (MPa), min. | ASTM D412 (Q/C) | 180 (1.24) | 200 (1.38) | 180 (1.24) | 80 (0.55) | 175 (1.21) | 200 (1.38) |
| | Elongation, % min. or % min./max. | ASTM D412 (Q/C) | 60/260 | 100/300 | 100/300 | 75 | 75 | 100 |
| | Tear Strength, lb/in. (kN/m), min. | ASTM D624 (Q) | 35 (6.13) | 40 (7.00) / 25 (4.38) | 35 (6.13) | Not Tested | Not Tested | 50 (8.75) |
| | Compression Set, 70 hrs at 100°C, % max. ^(A) | ASTM D395, Method B (Q) | 30 | 32 | 35 | 30 | 32 | 30 |
| Thermal | Low Temperature Flex TR10, °C, min. | ASTM D1329 (Q) | -55 | -65 | -55 | -60 | -65 | -45 |
| | Maximum Continuous Use Temperature, °C ^(B) | -- | 160/200 | 125 | 125 | 125 | 125 | 150 |
| | Thermal Conductivity, W/m-K (Typical) 300 psi (2.07 MPa) | ASTM D5470 | Not Tested | 2.1 | Not Tested | 0.8 | Not Tested | 0.8 |
| Electrical | Shielding Effectiveness, dB, min. ^(F) | Method 1: CHO-TM-TP08 ^c (Q) | Method 2 | Method 2 | Method 2 | Method 3 | Method 1 | Method 1 |
| | | 200 kHz (H Field) | 55 | 70 | 70 | Not Tested | Not Tested | Not Tested |
| | | 100 MHz (E Field) | 110 | 120 | 120 | 80 | 100 | 100 |
| | | 500 MHz (E Field) | 100 | 120 | 120 | 80 | 100 | 100 |
| | | 2 GHz (Plane Wave) | 95 | 120 | 115 | 70 | 100 | 100 |
| | | 10 GHz (Plane Wave) | 90 | 120 | 110 | 70 | 100 | 100 |
| | | 40 GHz (Plane Wave) | 75 | 90 | Not Tested | Not Tested | Not Tested | 75 |
| | Method 2: MIL-DTL-83528 Para. 4.6.12 (Q) | | | | | | | |
| Method 3: CHO-TM-TP09 ^c (Q) | | | | | | | | |
| Electrical | Electrical Stability, ohm-cm, max. | | | | | | | |
| | Heat Aging | CEPS-0002 ^c (Q) | Not Applicable | Not Applicable | Not Applicable | 0.100 ^e | 0.010 | 0.250 ^e |
| | | MIL-DTL-83528 Para. 4.6.15 (Q/C) | 0.015 | 0.010 | 0.015 | Not Applicable | Not Applicable | Not Applicable |
| | Resistance During Vibration | MIL-DTL-83528 Para. 4.6.13 (Q) | 0.015 | 0.004 | 0.010 | Not Applicable | Not Applicable | Not Applicable |
| | Resistance After Vibration | MIL-DTL-83528 Para. 4.6.13 (Q) | 0.012 | 0.008 | 0.015 | Not Applicable | Not Applicable | Not Applicable |
| | Post Tensile Set Volume Resistivity | MIL-DTL-83528 Para. 4.6.9 (Q/C) | 0.015 | 0.008 | 0.015 | Not Applicable | Not Applicable | Not Applicable |
| Regulatory | EMP Survivability, kA per in. perimeter | MIL-DTL-83528 Para. 4.6.16 (Q) | >0.9 | >0.9 | >0.9 | Not Applicable | Not Applicable | Not Applicable |
| | RoHS Compliant | -- | Yes | Yes | Yes | Yes | Yes | Yes |
| | UL 94 Flammability Rating | -- | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | HB |



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Elastomer Binder Legend

Silicone



Fluorosilicone



EPDM



Fluorocarbon/
Fluorosilicone



continued...Table 7: Material Guidelines - Military and Commercial

| | Test Procedure (Type of Test) | CHO-SEAL® 6330 | CHO-SEAL® 6370 | CHO-SEAL® 6371 | CHO-SEAL® 6372 | CHO-SEAL® 6308 | CHO-SEAL® L6303 | |
|---|---|---|----------------------|----------------------|----------------------|----------------------|--------------------|--------------------|
| Physical | Molded (M) or Extruded (E) | -- | M | E | M | E | M/E | |
| | Conductive Filler | -- | Ni/C | Ni/C | Ni/C | Ni/C | Ni/C | |
| | Elastomer Binder | -- | Silicone | Silicone | Silicone | Silicone | Silicone | Fluorosilicone |
| | Type (Ref. MIL-DTL-83528) | -- | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| | Volume Resistivity, ohm-cm, max., as supplied without pressure sensitive adhesive | CEPS-0002 ^c (Q/C) | 0.250 | 0.100 | 0.100 | 0.750 | 0.100 | 0.100 |
| | | MIL-DTL-83528 (Q/C) | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| | Hardness, Shore A | ASTM D2240 (Q/C) | 40 ±7 | 60 ±10 | 65 ±10 | 57 ±7 | 65 ±10 | 65 ±10 |
| | Specific Gravity | ASTM D792 (Q/C) | 1.70 ± 0.25 | 2.10 ± 0.25 | 2.00 ± 0.25 | 1.80 ± 0.25 | 2.00 ± 0.25 | 2.20 ± 0.25 |
| | Tensile Strength, psi (MPa), min. | ASTM D412 (Q/C) | 120 (0.83) | 150 (1.03) | 150 (1.03) | 150 (1.03) | 200 (1.38) | 150 (1.03) |
| | Elongation, % min. or % min./max. | ASTM D412 (Q/C) | 75 | 100 | 100 | 100 | 75 | 60 |
| Tear Strength, lb/in. (kN/m), min. | ASTM D624 (Q) | Not Tested | 35 (6.13) | Not Tested | 35 (6.13) | 40 (7.00) | 35 (6.13) | |
| Compression Set, 70 hrs at 100°C, % max. ^(A) | ASTM D395, Method B (Q) | 25 | 40 | 40 | 30 | 30 | 25 | |
| Thermal | Low Temperature Flex TR10, °C, min. | ASTM D1329 (Q) | -40 | -45 | -40 | -40 | -60 | -45 |
| | Maximum Continuous Use Temperature, °C ^(B) | -- | 150 | 150 | 150 | 150 | 150 | |
| | Thermal Conductivity, W/m-K (Typical) 300 psi (2.07 MPa) | ASTM D5470 | 0.6 | 0.9 | 1.1 | Not Tested | Not Tested | 0.8 |
| Electrical | Shielding Effectiveness, dB, min. ^(F) | Method 1: CHO-TM-TP08 ^c (Q) Method 2: MIL-DTL-83528 Para. 4.6.12 (Q) Method 3: CHO-TM-TP09 ^c (Q) | Method 3 | Method 1 | Method 1 | Method 1 | Method 1 | Method 1 |
| | 200 kHz (H Field) | | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested |
| | 100 MHz (E Field) | | 75 | 100 | 100 | 80 | 100 | 100 |
| | 500 MHz (E Field) | | 75 | 100 | 100 | 80 | 100 | 100 |
| | 2 GHz (Plane Wave) | | 70 | 95 | 80 | 80 | 100 | 100 |
| | 10 GHz (Plane Wave) | | 70 | 95 | 80 | 80 | 100 | 100 |
| | 40 GHz (Plane Wave) | | 0.6 | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested |
| Regulatory | Electrical Stability, ohm-cm, max. | | | | | | | |
| | Heat Aging | CEPS-0002 ^c (Q) | 0.250 ^(e) | 0.250 ^(e) | 0.250 ^(e) | 0.850 ^(e) | 0.250 ^e | 0.250 ^e |
| | | MIL-DTL-83528 Para. 4.6.15 (Q/C) | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| | Resistance During Vibration | MIL-DTL-83528 Para. 4.6.13 (Q) | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| | Resistance After Vibration | MIL-DTL-83528 Para. 4.6.13 (Q) | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| | Post Tensile Set Volume Resistivity | MIL-DTL-83528 Para. 4.6.9 (Q/C) | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| | EMP Survivability, kA per in. perimeter | MIL-DTL-83528 Para. 4.6.16 (Q) | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| | RoHS Compliant | -- | Yes | Yes | Yes | Yes | Yes | Yes |
| | UL 94 Flammability Rating | -- | V-1 | V-0 | V-0 | V-1 | Not Tested | Not Tested |



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Elastomer Binder Legend

Silicone



Fluorosilicone



EPDM



Fluorocarbon/
Fluorosilicone



continued...Table 7: Material Guidelines - Military and Commercial

| | Test Procedure (Type of Test) | CHO-SEAL® 1310 | CHO-SEAL® 1350 | CHO-SEAL® 0860 | CHO-SEAL® 0862 | CHO-SEAL® S6600 | |
|---|--|--|-----------------------|-------------------|-------------------|--------------------|------------|
| Molded (M) or Extruded (E) | -- | M | M/E | E | E | M | |
| Conductive Filler | -- | Ag/Glass | Ag/Glass | Carbon | Carbon | Carbon | |
| Elastomer Binder | -- | Silicone | Silicone | Silicone | Silicone | Silicone | |
| Type (Ref. MIL-DTL-83528) | -- | Not Applicable | Type M ^(I) | Not Applicable | Not Applicable | Not Applicable | |
| Volume Resistivity, ohm-cm, max., as supplied without pressure sensitive adhesive | CEPS-0002 ^c (Q/C) | 0.010 | Not Applicable | 3 | 24 | 7 | |
| | MIL-DTL-83528 (Q/C) | Not Applicable | 0.006 | Not Applicable | Not Applicable | Not Applicable | |
| Hardness, Shore A | ASTM D2240 (Q/C) | 70 ±10 | 65 ±7 | 70 ±5 | 70 ±5 | 75 ±7 | |
| Specific Gravity | ASTM D792 (Q/C) | 1.80 ± 0.25 | 1.90 ± 0.25 | 1.28 ±0.30 | 1.20 ±0.30 | 1.20 ±0.25 | |
| Tensile Strength, psi (MPa), min. | ASTM D412 (Q/C) | 200 (1.38) | 200 (1.38) | 500 (3.45) | 600 (4.14) | 650 (4.48) | |
| Elongation, % min. or % min./max. | ASTM D412 (Q/C) | 100 | 100/300 | 75 | 100 | 70 | |
| Tear Strength, lb/in. (kN/m), min. | ASTM D624 (Q) | Not Tested | 30 (5.25) | 50 (8.75) | 60 (10.51) | Not Tested | |
| Compression Set, 70 hrs at 100°C, % max. ^(A) | ASTM D395, Method B (Q) | 35 | 30 | Not Tested | Not Tested | 45 | |
| Thermal | Low Temperature Flex TR10, °C, min. | ASTM D1329 (Q) | -40 | -55 | -51 | -51 | -45 |
| | Maximum Continuous Use Temperature, °C ^(B) | -- | 160 | 160 | 177 | 177 | 200 |
| | Thermal Conductivity, W/m-K (Typical) 300 psi (2.07 MPa) | ASTM D5470 | Not Tested | 1.2 | Not Tested | Not Tested | 0.6 |
| Electrical | Shielding Effectiveness, dB, min. ^(F) | Method 1: CHO-TM-TP08 ^c (Q) | Method 1 | Method 2 | Not Applicable | Not Applicable | Method 1 |
| | 200 kHz (H Field) | | Not Tested | 50 | Not Tested | Not Tested | Not Tested |
| | 100 MHz (E Field) | Method 2: MIL-DTL-83528 Para. 4.6.12 (Q) | 100 | 100 | Not Tested | Not Tested | 80 |
| | 500 MHz (E Field) | | 100 | 100 | Not Tested | Not Tested | 80 |
| | 2 GHz (Plane Wave) | | 90 | 90 | Not Tested | Not Tested | 60 |
| | 10 GHz (Plane Wave) | Method 3: CHO-TM-TP09 ^c (Q) | 80 | 80 | Not Tested | Not Tested | 50 |
| | 40 GHz (Plane Wave) | | Not Tested | 75 | Not Tested | Not Tested | Not Tested |
| | Electrical Stability, ohm-cm, max. | | | | | | |
| Heat Aging | CEPS-0002 ^c (Q) | 0.010 | Not Applicable | Not Tested | Not Tested | 7 ^(E) | |
| | MIL-DTL-83528 Para. 4.6.15 (Q/C) | Not Applicable | 0.015 | Not Applicable | Not Applicable | Not Applicable | |
| Resistance During Vibration | MIL-DTL-83528 Para. 4.6.13 (Q) | Not Applicable | 0.009 | Not Applicable | Not Applicable | Not Applicable | |
| Resistance After Vibration | MIL-DTL-83528 Para. 4.6.13 (Q) | Not Applicable | 0.006 | Not Applicable | Not Applicable | Not Applicable | |
| Post Tensile Set Volume Resistivity | MIL-DTL-83528 Para. 4.6.9 (Q/C) | Not Applicable | 0.009 | Not Applicable | Not Applicable | Not Applicable | |
| EMP Survivability, kA per in. perimeter | MIL-DTL-83528 Para. 4.6.16 (Q) | Not Applicable | 0.015 | Not Applicable | Not Applicable | Not Applicable | |
| RoHS Compliant | -- | Yes | Yes | Yes | Yes | Yes | |
| UL 94 Flammability Rating | -- | HB | Not Tested | Not tested | V-0 | Not Tested | |



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Elastomer Binder Legend

Silicone



Fluorosilicone



EPDM



Fluorocarbon/
Fluorosilicone



Table 8: Material Guidelines - Specialty Products

| | | Test Procedure (Type of Test) | CHO-SEAL® 1401 | CHO-SEAL® 1239 | CHO-SEAL® 1212 | CHO-SEAL® 6435 | CHO-SEAL® 6307 | CHO-SEAL® 6452 |
|---|---|--|-------------------|-----------------------------|-------------------|-----------------------|-------------------|-------------------|
| Physical | Molded (M) or Extruded (E) | -- | M/E | M | M | M | M | E |
| | Conductive Filler | -- | Ag | Ag/Cu | Ag/Cu | Ag/Ni | Ni/C | Ni/C |
| | Elastomer Binder | -- | Silicone | Silicone & Expd. Cu Foil | Silicone | EPDM | EPDM | EPDM |
| | Type (Ref. MIL-DTL-83528) | -- | Not Qualified | Type G | Type K | Not Applicable | Not Applicable | Not Applicable |
| | Volume Resistivity, ohm-cm, max., as supplied without pressure sensitive adhesive | CEPS-0002 ^c (Q/C) | Not Applicable | Not Applicable | Not Applicable | 0.006 | 5.000 | Not Applicable |
| | | MIL-DTL-83528 (Q/C) | 0.010 | 0.007 | 0.005 | Not Applicable | Not Applicable | 0.500 |
| | Hardness, Shore A | ASTM D2240 (Q/C) | 45 ±5 | 80 ±7 | 85 ±7 | 80 ±7 | 75 ±7 | 70 ±10 |
| | Specific Gravity | ASTM D792 (Q/C) | 1.60 ± 0.25 | 4.75 ± 0.75 | 3.50 ± 0.45 | 3.70 ± 0.25 | 1.90 ± 0.25 | 1.95 ± 0.25 |
| | Tensile Strength, psi (MPa), min. | ASTM D412 (Q/C) | 200 (1.38) | 600 (4.14) | 400 (2.76) | 200 (1.38) | 200 (1.38) | 200 (1.38) |
| | Elongation, % min. or % min./max. | ASTM D412 (Q/C) | 75 | 20 | 100/300 | 200 | 75 | 200 |
| | Tear Strength, lb/in. (kN/m), min. | ASTM D624 (Q) | 20 (3.50) | 70 (12.25) | 40 (7.00) | 75 (13.13) | 60 (10.51) | 55 (9.63) |
| Compression Set, 70 hrs at 100°C, % max. ^(A) | ASTM D395, Method B (Q) | 35 | Not Tested | 35 | 40 | 40 | 35 | |
| Thermal | Low Temperature Flex TR10, °C, min. | ASTM D1329 (Q) | -55 | Not Tested | -45 | -40 | -45 | Pending |
| | Maximum Continuous Use Temperature, °C ^(B) | -- | 160/200 | 125 | 125 | 100 | 100 | 100 |
| | Thermal Conductivity, W/m-K (Typical) 300 psi (2.07 MPa) | ASTM D5470 | 0.9 | 1.9 | 1.8 | 1.8 | 0.6 | Not Tested |
| Electrical | Shielding Effectiveness, dB, min. ^(F) | Method 1: CHO-TM-TP08C (Q) | Method 2 | Method 2 | Method 2 | Method 2 | Method 2 | Method 3 |
| | 200 kHz (H Field) | | 60 | 70 | 70 | Not Tested | Not Tested | Not Tested |
| | 100 MHz (E Field) | Method 2: MIL-DTL-83528 Para. 4.6.12 (Q) | 100 | 110 | 120 | 105 | 95 | 75 |
| | 500 MHz (E Field) | | 100 | 110 | 120 | 100 | 90 | Not Tested |
| | 2 GHz (Plane Wave) | | 90 | 110 | 120 | 85 | 85 | 105 |
| | 10 GHz (Plane Wave) | Method 3: CHO-TM-TP09C (Q) | 80 | 110 | 120 | 85 | 85 | 85 |
| | 40 GHz (Plane Wave) | | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested |
| Electrical Stability, ohm-cm, max. | | | | | | | | |
| Regulatory | Heat Aging | CEPS-0002 ^c (Q) | Not Applicable | Not Applicable | Not Applicable | 0.0125 ^(d) | 10 ^d | Not Applicable |
| | | MIL-DTL-83528 Para. 4.6.15 (Q/C) | 0.015 | 0.010 | 0.010 | Not Applicable | Not Applicable | 0.350 |
| | Resistance During Vibration | MIL-DTL-83528 Para. 4.6.13 (Q) | 0.015 | 0.007 | 0.010 | Not Applicable | Not Applicable | Not Applicable |
| | Resistance After Vibration | MIL-DTL-83528 Para. 4.6.13 (Q) | 0.010 | Not Applicable | 0.005 | Not Applicable | Not Applicable | Not Applicable |
| | Post Tensile Set Volume Resistivity | MIL-DTL-83528 Para. 4.6.9 (Q/C) | 0.020 | Not Applicable | 0.010 | Not Applicable | Not Applicable | Not Applicable |
| EMP Survivability, kA per in. perimeter | MIL-DTL-83528 Para. 4.6.16 (Q) | >0.9 | >0.9 | >0.9 | Not Applicable | Not Applicable | Not Applicable | |
| RoHS Compliant | -- | Yes | Yes | Yes | Yes | Yes | Yes | |
| UL 94 Flammability Rating | -- | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | |



EMI Shielding and Thermal Management Materials

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Authorized Stocking Distributor of Parker Chomerics

Elastomer Binder Legend

Silicone



Fluorosilicone



EPDM



Fluorocarbon/
Fluorosilicone



Table 9: Material Guidelines - Corrosion Resistant Materials

| | Test Procedure (Type of Test) | CHO-SEAL® V6433 | CHO-SEAL® 6502 | CHO-SEAL® 6503 | CHO-SEAL® 1298 | CHO-SEAL® 1285 | CHO-SEAL® 1287 | |
|---|--|---|----------------------|----------------------|---------------------|-------------------|----------------------|----------------|
| Molded (M) or Extruded (E) | -- | M | M/E | M/E | M/E | M/E | M/E | |
| Conductive Filler | -- | Ag/Ni | Ni/Al | Ni/Al | Passivated Ag/Al | Ag/Al | Ag/Al | |
| Elastomer Binder | -- | Fluorocarbon/ Fluorosilicone | Silicone | Fluorosilicone | Fluorosilicone | Silicone | Fluorosilicone | |
| Type (Ref. MIL-DTL-83528) | -- | Not Applicable | Not Applicable | Not Applicable | Type D | Type B | Type D | |
| Volume Resistivity, ohm-cm, max., as supplied without pressure sensitive adhesive | CEPS-0002 ^c (Q/C) | Not Applicable | 0.150 | 0.250 | Not Applicable | Not Applicable | Not Applicable | |
| | MIL-DTL-83528 (Q/C) | 0.006 | Not Applicable | Not Applicable | 0.012 | 0.008 | 0.012 | |
| Hardness, Shore A | ASTM D2240 (Q/C) | 85 ±7 | 65 ±10 | 74 ±7 | 70 ±7 | 65 ±7 | 70 ±7 | |
| Specific Gravity | ASTM D792 (Q/C) | 4.80 ± 0.25 | 1.85 ± 0.25 | 2.05 ± 0.25 | 2.00 ± 0.25 | 2.00 ± 0.25 | 2.00 ± 0.25 | |
| Tensile Strength, psi (MPa), min. | ASTM D412 (Q/C) | 400 (2.76) | 150 (1.03) | 150 (1.03) | 180 (1.24) | 200 (1.38) | 180 (1.24) | |
| Elongation, % min. or % min./max. | ASTM D412 (Q/C) | 50 | 100 min | 65 min | 60/260 | 100/300 | 60/260 | |
| Tear Strength, lb/in. (kN/m), min. | ASTM D624 (Q) | 70 (12.25) | 40 (7.00) | 35 (6.13) | 35 (6.13) | 30 (5.25) | 35 (6.13) | |
| Compression Set, 70 hrs at 100°C, % max. ^(A) | ASTM D395, Method B (Q) | 45 | 30 | 30 | 30 | 32 | 30 | |
| Thermal | Low Temperature Flex TR10, °C, min. | ASTM D1329 (Q) | -25 | -55 | -55 | -55 | -65 | -55 |
| | Maximum Continuous Use Temperature, °C ^(B) | -- | 200 | 125 | 125 | 160/200 | 160/200 | 160/200 |
| | Thermal Conductivity, W/m-K (Typical) 300 psi (2.07 MPa) | ASTM D5470 | 2.1 | 1.0 | 0.9 | 1.2 | 2.2 | Not Tested |
| Electrical | Shielding Effectiveness, dB, min. ^(F) | Method 1: CHO-TM-TP08 ^c (Q) | Method 2 | Method 3 | Method 3 | Method 2 | Method 2 | Method 2 |
| | 200 kHz (H Field) | | Not Tested | Not Tested | Not Tested | 55 | 60 | 55 |
| | 100 MHz (E Field) | Method 2: MIL-DTL-83528 Para. 4.6.12 (Q) | 105 | 100 | 95 | 110 | 115 | 110 |
| | 500 MHz (E Field) | | 100 | Not Tested | Not Tested | 100 | 110 | 100 |
| | 2 GHz (Plane Wave) | | 90 | 110 | 110 | 95 | 105 | 95 |
| | 10 GHz (Plane Wave) | Method 3: CHO-TM-TP09 ^c (Q) | 90 | 85 | 100 | 90 | 100 | 90 |
| | 40 GHz (Plane Wave) | | Not Tested | Not Tested | Not Tested | 75 | Not Tested | 75 |
| Electrical Stability, ohm-cm, max. | | | | | | | | |
| Heat Aging | CEPS-0002 ^c (Q) | 0.008 ^g | 0.200 ^(H) | 0.250 ^(H) | Not Applicable | Not Applicable | 0.200 ^(H) | |
| | MIL-DTL-83528 Para. 4.6.15 (Q/C) | Not Applicable | Not Applicable | Not Applicable | 0.015 | 0.010 | Not Applicable | |
| Resistance During Vibration | MIL-DTL-83528 Para. 4.6.13 (Q) | Not Applicable | Not Applicable | Not Applicable | 0.015 | 0.012 | Not Applicable | |
| Resistance After Vibration | MIL-DTL-83528 Para. 4.6.13 (Q) | Not Applicable | Not Applicable | Not Applicable | 0.012 | 0.008 | Not Applicable | |
| Post Tensile Set Volume Resistivity | MIL-DTL-83528 Para. 4.6.9 (Q/C) | Not Applicable | Not Applicable | Not Applicable | 0.015 | 0.015 | Not Applicable | |
| Regulatory | EMP Survivability, kA per in. perimeter | MIL-DTL-83528 Para. 4.6.16 (Q) | Not Applicable | Not Applicable | Not Applicable | >0.9 | >0.9 | Not Applicable |
| RoHS Compliant | -- | Yes | Yes | Yes | Yes | Yes | Yes | |
| UL 94 Flammability Rating | -- | Not tested | Not tested | Not tested | Not Tested | Not Tested | Not tested | |



EMI Shielding and Thermal Management Materials

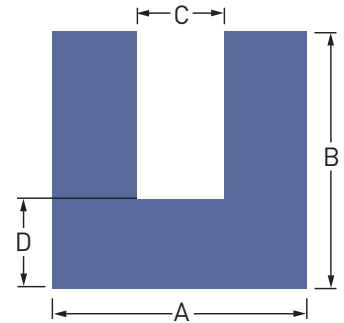
marketingeast

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Profile Description: Channel Shape

Table 13: Profiles, Channel-Shape (Sorted by "A" Dimension)

| Part Number | Nominal Dimension (inch) | | | | Nominal Dimension (mm) | | | |
|------------------|--------------------------|-------|-------|-------|------------------------|-------|------|------|
| | A | B | C | D | A | B | C | D |
| 19-08-14054-XXXX | 0.075 | 0.099 | 0.025 | 0.032 | 1.90 | 2.51 | 0.64 | 0.81 |
| 10-08-6475-XXXX | 0.100 | 0.100 | 0.034 | 0.033 | 2.54 | 2.54 | 0.86 | 0.84 |
| 19-08-22217-XXXX | 0.125 | 0.188 | 0.025 | 0.062 | 3.17 | 4.78 | 0.64 | 1.57 |
| 19-08-12880-XXXX | 0.126 | 0.078 | 0.044 | 0.048 | 3.20 | 1.98 | 1.12 | 1.22 |
| 19-08-12881-XXXX | 0.126 | 0.099 | 0.047 | 0.059 | 3.20 | 2.51 | 1.19 | 1.50 |
| 10-08-3215-XXXX | 0.126 | 0.110 | 0.025 | 0.050 | 3.20 | 2.79 | 0.64 | 1.27 |
| 10-08-4315-XXXX | 0.126 | 0.225 | 0.020 | 0.075 | 3.20 | 5.71 | 0.51 | 1.90 |
| 19-08-17623-XXXX | 0.154 | 0.114 | 0.082 | 0.048 | 3.91 | 2.90 | 2.08 | 1.22 |
| 10-08-3157-XXXX | 0.156 | 0.156 | 0.062 | 0.047 | 3.96 | 3.96 | 1.57 | 1.19 |
| 19-08-12844-XXXX | 0.156 | 0.175 | 0.046 | 0.075 | 3.96 | 4.44 | 1.17 | 1.90 |
| 10-08-3253-XXXX | 0.175 | 0.156 | 0.047 | 0.075 | 4.44 | 3.96 | 1.19 | 1.90 |
| 10-08-F815-XXXX | 0.188 | 0.188 | 0.062 | 0.062 | 4.78 | 4.78 | 1.57 | 1.57 |
| 19-08-23568-XXXX | 0.190 | 0.270 | 0.050 | 0.065 | 4.83 | 6.86 | 1.27 | 1.65 |
| 19-08-C929-XXXX | 0.250 | 0.250 | 0.130 | 0.062 | 6.35 | 6.35 | 3.30 | 1.57 |
| 19-08-12885-XXXX | 0.260 | 0.184 | 0.140 | 0.062 | 6.60 | 4.67 | 3.56 | 1.57 |
| 19-08-17068-XXXX | 0.312 | 0.187 | 0.190 | 0.061 | 7.92 | 4.75 | 4.83 | 1.55 |
| 19-08-12886-XXXX | 0.320 | 0.315 | 0.193 | 0.197 | 8.13 | 8.00 | 4.90 | 5.00 |
| 10-08-3872-XXXX | 0.327 | 0.235 | 0.062 | 0.115 | 8.31 | 5.97 | 1.57 | 2.92 |
| 10-08-8754-XXXX | 0.330 | 0.215 | 0.170 | - | 8.38 | 5.46 | 4.32 | - |
| 19-08-E622-XXXX | 0.375 | 0.500 | 0.187 | 0.125 | 9.52 | 12.70 | 4.75 | 3.17 |



Standard Tolerances (inch)

- <0.200: ±0.005
- 0.200 - 0.349: ±0.008
- 0.350 - 0.500: ±0.010
- >0.500: ±3% Nom. Dim.

Dimensions listed for reference only.

Please see Chomerics drawing for revision-controlled specifications.

Contact **Marketing East** or groove design assistance.



EMI Shielding and Thermal Management Materials

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