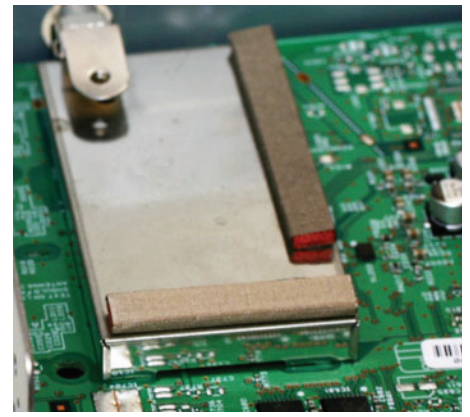


Low Closure Force EMI Shielding Gaskets

High Temperature Conductive Fabric Over Foam. (FOF)

SOFT-SHIELD® 3700



Customer Value Proposition:

SOFT-SHIELD® 3700 fabric over foam (fof), is a low-closure force EMI gasket rated to be used in higher temperature applications (maximum temperature 125°C). This enables fabric over foam type gaskets to be used in applications where temperature requirements are greater than 70°C. Most fof's in today's market use urethane foam cores, this means when brought above 70°C the products takes a major compression set. The temperature range for SOFT-SHIELD 3700 is -40°C to 125°C.

The SOFT-SHIELD 3700 material fits a need in the automotive market place for low cost, low closure force, high temperature EMI/ESD gasketing. It is ideal for medical and military applications that require EMI shielding in higher temperatures. SOFT-SHIELD 3700 is also ideal for IT and telecom applications that have been pushing 85°C operating temperatures.

The SOFT-SHIELD 3700 product is comprised of a conductive fabric wrapped around a soft cellular silicone foam that relies on wrap around technology to ground the gasket from point to point ultimately eliminating an EMI gap.

Profiles are engineered to optimize mechanical form fit and function while optimizing electrical performance. This technical data sheet will address the most common type fof Chomerics has to offer to market, contact Parker Chomerics for any other special requirements and an updated profile list.

SOFT-SHIELD 3700 typically requires less than 1lb/in (0.175/mm) closure force, making it effective for low closure force applications and compression. SOFT-SHIELD 3700 takes less the 7% compression set which is less than most other fof's on the market resulting in reliable/repeatable shielding performance. SOFT-SHIELD 3700 is an excellent alternative shielding solution replacing traditional spring finger type products.

Contact Information:

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Product Features:

- Operation range from -40°C to 125°C
- >100(dB) shielding effectiveness 50 MHz to 10 GHz
- Low closure force
- Ultra-soft profiles that accommodate a wide range of tolerance gaps
- Currently available in rectangles and square shapes
- Readily available in bulk, cut to length or with die-cut or cut out features
- UL 94 V-0 Rated
- RoHS Compliant
- REACH Compliant
- Excellent low compression set properties
- Abrasion/sheer resistant conductive jackets
- Low cost compared to industry alternatives

Product Features:

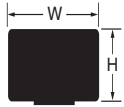
- Used between faceplates on blade cards
- Panel seals
- Cover seal
- Door seals
- Grounding tabs
- EMI Window/vent seals
- Improved ground paths



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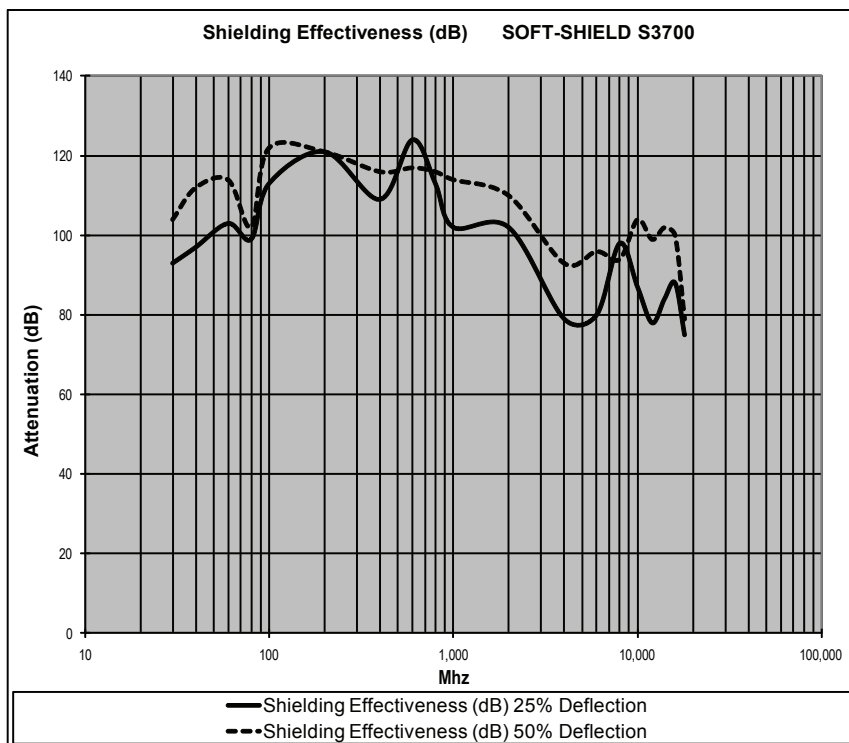
SOFT-SHIELD® 3700 - Product Information



Rectangle Profiles

| Profile | Shape | Height (Inches) | Height (Metric) | Width (Inches) | Width (Metric) |
|---------|-------|-----------------|-----------------|----------------|----------------|
| 1008 | Rect. | 0.075 | 1.9 | 0.118 | 3.0 |
| 1003 | Rect. | 0.075 | 1.9 | 0.157 | 4.0 |
| 1011 | Rect. | 0.075 | 1.9 | 0.197 | 5.0 |
| 1004 | Rect. | 0.075 | 1.9 | 0.236 | 6.0 |
| 1012 | Rect. | 0.075 | 1.9 | 0.276 | 7.0 |
| 1005 | Rect. | 0.075 | 1.9 | 0.315 | 8.0 |
| 1013 | Rect. | 0.075 | 1.9 | 0.394 | 10.0 |
| 1014 | Rect. | 0.075 | 1.9 | 0.472 | 12.0 |
| 1009 | Rect. | 0.075 | 1.9 | 0.500 | 12.7 |
| 1015 | Rect. | 0.075 | 1.9 | 0.591 | 15.0 |
| 1016 | Rect. | 0.075 | 1.9 | 0.827 | 21.0 |
| 1017 | Rect. | 0.075 | 1.9 | 0.984 | 25.0 |
| 1006 | Rect. | 0.075 | 1.9 | 1.378 | 35.0 |
| 1007 | Rect. | 0.075 | 1.9 | 1.614 | 41.0 |
| 1010 | Rect. | 0.075 | 1.9 | 1.890 | 48.0 |
| 1024 | Rect. | 0.105 | 2.7 | 0.157 | 4.0 |
| 1018 | Rect. | 0.105 | 2.7 | 0.197 | 5.0 |
| 1023 | Rect. | 0.105 | 2.7 | 0.236 | 6.0 |
| 1021 | Rect. | 0.105 | 2.7 | 0.264 | 6.7 |
| 1025 | Rect. | 0.105 | 2.7 | 0.375 | 9.5 |
| 1022 | Rect. | 0.105 | 2.7 | 0.394 | 10.0 |
| 1020 | Rect. | 0.105 | 2.7 | 0.512 | 13.0 |

| Profile | Shape | Height (Inches) | Height (Metric) | Width (Inches) | Width (Metric) |
|---------|-------|-----------------|-----------------|----------------|----------------|
| 1019 | Rect. | 0.105 | 2.7 | 0.826 | 21.0 |
| 1027 | Rect. | 0.137 | 3.5 | 0.197 | 5.0 |
| 1026 | Rect. | 0.137 | 3.5 | 0.354 | 9.0 |
| 1028 | Rect. | 0.137 | 3.5 | 0.512 | 13.0 |
| 1029 | Rect. | 0.137 | 3.5 | 0.826 | 21.0 |
| 1030 | Rect. | 0.2 | 5.1 | 0.137 | 3.5 |
| 1033 | Rect. | 0.2 | 5.1 | 0.2 | 5.1 |
| 1031 | Rect. | 0.2 | 5.1 | 0.295 | 7.5 |
| 1035 | Rect. | 0.2 | 5.1 | 0.315 | 8.0 |
| 1034 | Rect. | 0.2 | 5.1 | 0.394 | 10.0 |
| 1036 | Rect. | 0.2 | 5.1 | 0.591 | 15.0 |
| 1032 | Rect. | 0.2 | 5.1 | 1.949 | 49.5 |
| 1037 | Rect. | 0.262 | 6.7 | 0.512 | 13.0 |
| 1038 | Rect. | 0.262 | 6.7 | 1 | 25.4 |
| 1041 | Rect. | 0.387 | 9.8 | 0.394 | 10.0 |
| 1039 | Rect. | 0.387 | 9.8 | 0.591 | 15.0 |
| 1040 | Rect. | 0.387 | 9.8 | 0.787 | 20.0 |
| 1043 | Rect. | 0.387 | 9.8 | 0.787 | 20.0 |
| 1042 | Rect. | 0.394 | 10.0 | 0.262 | 6.7 |
| 1045 | Rect. | 0.512 | 13.0 | 0.387 | 9.8 |
| 1044 | Rect. | 0.512 | 13.0 | 0.512 | 13.0 |



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SERVICE GmbH**

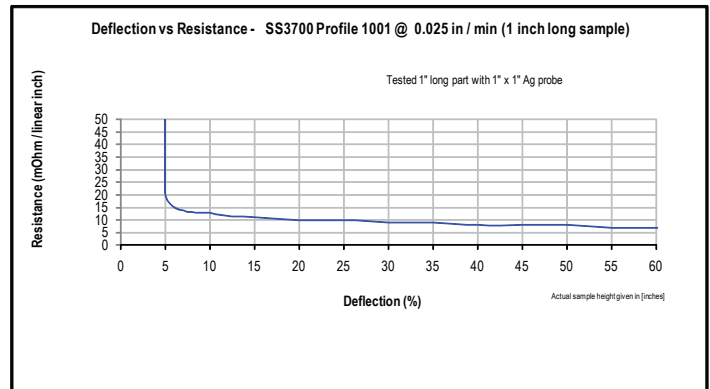
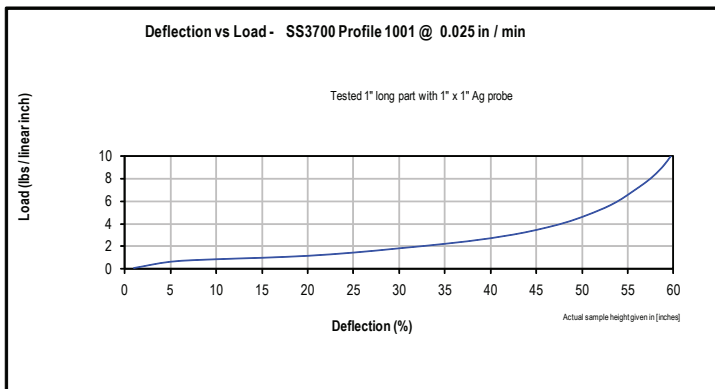
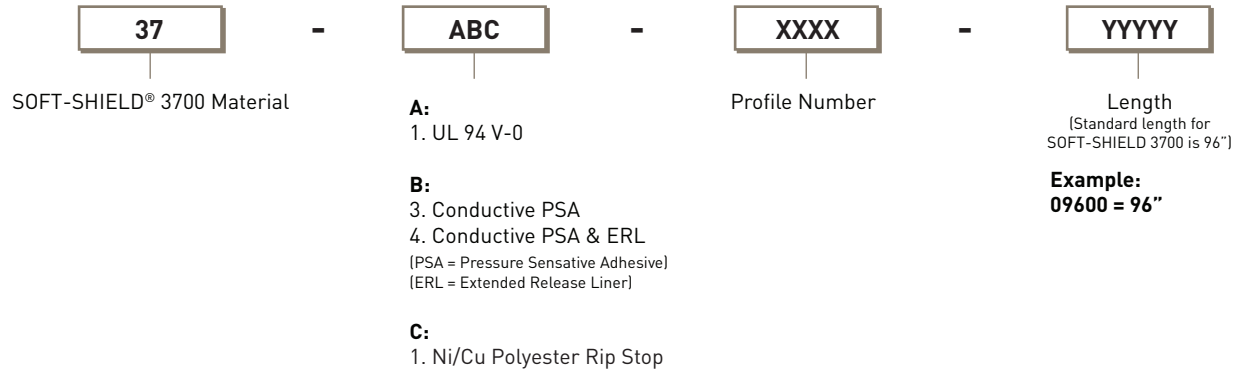


SOFT-SHIELD® 3700 - Product Information

| SOFT-SHIELD® 3700 Typical Properties | Value | Test Method |
|--|----------------|-------------|
| Shielding Effectiveness, 50MHz to 10 GHz | >100 db | Cho-TM-TP08 |
| 35% Compression/Deflection, lbs/in (N/mm), (.105" x .500" gasket) | <1 (<0.175) | ASTM C165 |
| Compression Set | <7% | ASTM D3574 |
| Operating Temperature Range | -40°C to 125°C | - |
| Acrylic Adhesive Peel Strength, 90degree b/inch (N/mm) (min value) | 2 [0.35] | ASTM D1000 |
| Recommended % Deflection | 20 - 50 % | - |
| Flammability | V-0 | UL 94 |

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

Ordering Procedure



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TB 1057 EN October 2010



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