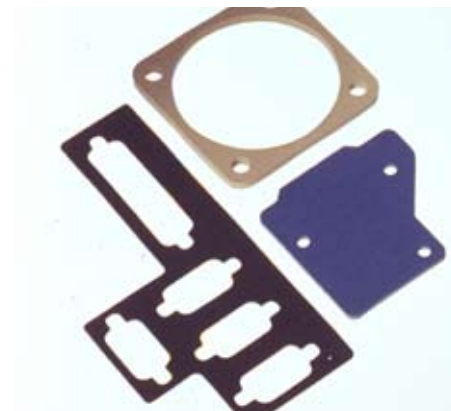


CHO-SEAL® 1270

Soft, Moldable Elastomer EMI Shielding Material



Customer Value

Proposition:

CHO-SEAL® 1270 is a low durometer hardness, electrically conductive molding grade elastomer specifically formulated to provide shielding against electromagnetic interference (EMI). Consisting of silver plated copper particles dispersed within a silicone elastomer, CHO-SEAL® 1270 is ideal for applications where superior mechanical performance, excellent conductivity, and long term stability are required.



Product Features:

- Typically 35 ± 5 Shore A durometer hardness
- Shielding effectiveness greater than 70dB from 100 MHz through 10 GHz.
- Superior mechanical performance, electrical conductivity, and long term stability compared to other “low durometer hardness” conductive elastomers currently available in the marketplace.
- Product forms include sheets, and die-cut parts with available thicknesses ranging from 0.030” (0.75mm) through 0.125” (3.2mm).

Typical Applications:

- Handheld electronics
- Military electronics
- Telecommunications and infrastructure equipment

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Product Information

Table 1 - CHO-SEAL® 1270 Typical Properties

Typical Properties	CHO-SEAL® 1270	Test Method
Elastomer Binder	Silicone	--
Conductive Filler	Silver Plated Copper	--
Volume Resistivity, ohm-cm	0.015 0.010	CEPS-0002 MIL-DTL-83528, Para 4.6.11
Hardness, Shore A	35 +/-5	ASTM D2240
Specific Gravity	2.90	ASTM D792
Tensile Strength, kPa (psi)	860 (125)	ASTM D412
Elongation, %	150	ASTM D412
Apparent Thermal Conductivity, W/m-K	1.2	ASTM D5470
Shielding Effectiveness @ 100 MHz @ 500 MHz @ 2 GHz @ 10 GHz	dB ≥ 80 ≥ 80 ≥ 70 ≥ 70	CHO-TM-TP08
Compression Set: 70 HR @ 100°C, %	9	ASTM D395 METHOD B
Heat Aging: 48 HR @ 150°C, ohm-cm	0.025 0.030	CEPS-0002 MIL-DTL-83528, Para 4.6.15
Low Temperature Flex: TR10, °C	-60	ASTM D1329
Maximum Continuous Use Temperature, °C	125	--

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.

Table 3 - Sheet Part Numbering Information

40	—	TA	—	1020	—	1270
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40	Thickness" (mm)	Adhesive PSA*	1020	1270
Material	1 = 0.020 (0.51) 2 = 0.032 (0.81) 3 = 0.062 (1.57) 4 = 0.093 (2.36) 5 = 0.125 (3.18) 7 = 0.010 (0.25)	0 = No PSA 1 = Adhesive Backing	Width X length 10 X 20 in (254 X 508 mm) Sheet Size	Material

* Pressure Sensitive Adhesive (PSA) cannot be applied to sheet thicknesses of 0.010" (0.25 mm) or 0.020" (0.51 mm)