CHO-SEAL® 6330 Soft, Moldable Elastomer EMI Shielding Material

Limited Distribution

Customer Value Proposition:

CHO-SEAL[®] 6330 is a low durometer hardness, electrically conductive molding grade elastomer specifically formulated to provide shielding against electromagnetic interference (EMI). Consisting of nickel plated graphite particles dispersed within a silicone elastomer, CHO-SEAL[®] 6330 is ideal for applications where seal hardness greater than 45 Shore A is impractical and cost prohibitive from a design perspective and exceptional mechanical and electrical performance are essential.



Product Features:

- Typically 35 ± 5 Shore A durometer hardness.
- Superior mechanical performance, electrical conductivity, and long term stability compared to "low durometer hardness" conductive elastomers currently available in the marketplace.
- Shielding effectiveness greater than 70dB from 100 MHz through 10 GHz.
- Product forms include sheets, die-cut parts and custom molded shapes with available thicknesses ranging from 0.032" (0.81 mm) through 0.125" (3.18 mm).

- UL 94 V-0 certified at 3.0 mm, V-1 certified at 1.5 mm.
- UL 50 certified for type 2, 3, 3R, 3S, 4, 4X, 5 and 6P enclosure applications.

Typical Applications:

- Handheld electronics
- Military electronics
- Telecommunications and infrastructure equipment

Contact Information: Parker Hannifin Corporation

Parker Hannifin Corporation Chomerics Division 77 Dragon Court Woburn, MA 01801 phone 781 935 4850 fax 781 933 4318 chomailbox@parker.com www.chomerics.com www.parker.com/chomerics



Table 1 - CHO-SEAL[®] 6330 Typical Properties

Typical Properties	CHO-SEAL [®] 6330	Test Method	
Elastomer Binder	Silicone		
Conductive Filler	Nickel Plated Graphite		
Volume Resistivity, ohm-cm	0.250	CEPS-0002	
Hardness, Shore A	40 ± 7	ASTM D2240	
Specific Gravity	1.73	ASTM D792	
Tensile Strength, psi (MPa), min.	120 (0.83)	ASTM D412	
Elongation, %	75	ASTM D412	
Apparent Thermal Conductivity, W/m-K	0.6	ASTM D5470	
Shielding Effectiveness @ 100 MHz @ 500 MHz @ 2 GHz @ 10 GHz	d B ≥ 75 ≥ 75 ≥ 70 ≥ 70	CHO-TM-TP08	
Compression Set: 70 HR @ 100°C, %	25	ASTM D395 METHOD B	
Heat Aging: 48 HR	0.190	CEPS-0002	
Low Temperature Flex: TR10, °C	-40	ASTM D1329	
Maximum Continuous Use Temperature, °C			

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 –	- T/	A –	- 1020 -	6330
40	Thickness inches (mm)	Adhesive PSA	1020	6330
Material	2 = 0.032 (0.81) 3 = 0.062 (1.57) 4 = 0.093 (2.36) 5 = 0.125 (3.18)	0 = No PSA 1 = Adhesive Backing	Width X length 10 X 20 in (254 X 508 mm) Sheet Size	Material

CHO-SEAL® 6330 available product forms include compression molded sheets, die-cut parts and custom molded shapes with available thicknesses ranging from 0.032" (0.81 mm) through 0.125" (3.18 mm). Design of complex molded parts using CHO-SEAL 6330 should be coordinated with the Parker Chomerics Applications Engineering Department.

www.chomerics.com www.parker.com/chomerics

CHOMERICS and CHO-SEAL are registered trademarks of Parker Hannifin Corporation.® 2013





ENGINEERING YOUR SUCCESS.