

CHO-MUTE™ 9005 and 9025

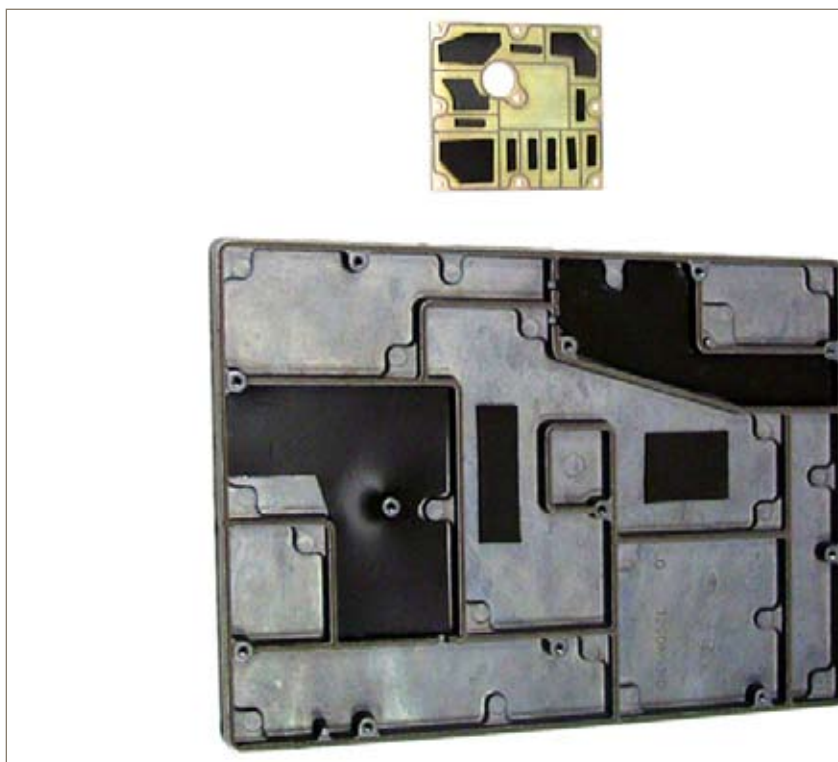
Microwave Absorber Materials

UL 94 V-0 Flammability Rated



Customer Value Proposition:

Cho-Mute 9005 and 9025 elastomer based absorber materials are designed to offer a user friendly approach to reduction of unwanted electromagnetic radiation from electronic equipment as well as minimize cavity to cavity cross coupling, and microwave cavity resonances. Comprised of a silicone elastomer matrix with ferrous filler material, these materials provide RF absorption performance over a broadband frequency range from 500 MHz to 18 GHz. The materials are offered as sheet stock of various thicknesses with or without pressure sensitive adhesive, are flexible, and can be easily die-cut for use in empirical testing of absorption solutions. Since both materials have been tested and certified to the UL 94 V-0 flammability standard, they may be used in close quarters with electronic circuitry to reduce unwanted electromagnetic radiation by absorption of signals and reduction of reflections from metallic surfaces.



Contact Information:

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Product Features:

- Microwave absorption material covering a wide range of frequency
- Up to 25 dB RF absorption
- Available in several thicknesses
- Flexible
- RoHS Compliant
- Global product availability
- UL 94V-0 certified

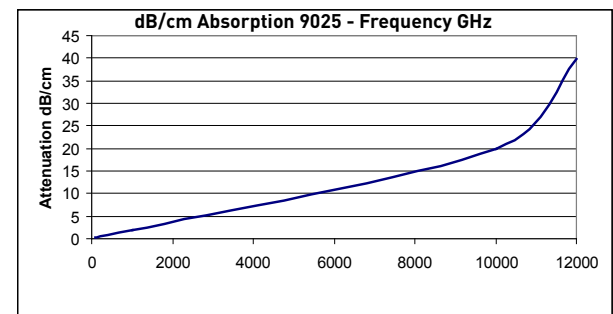
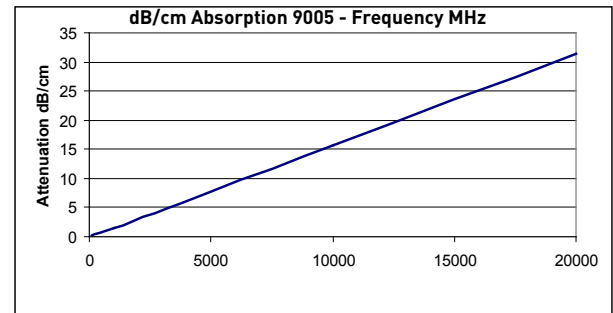
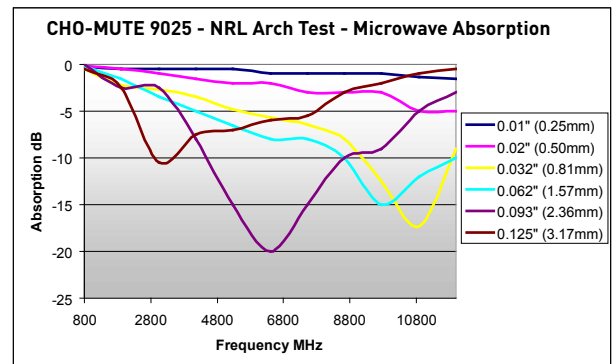
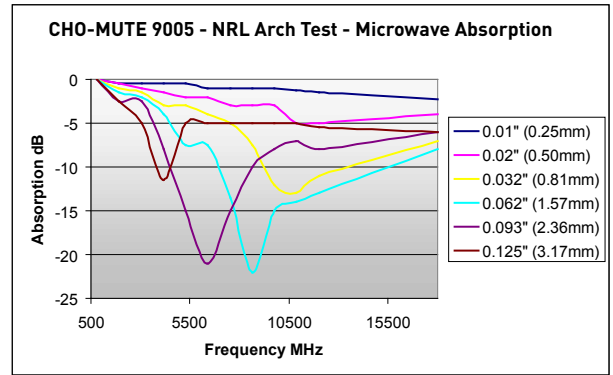
Typical Applications:

- Hand held electronics
- Wireless voice or data telecommunication
- Military electronics
- GPS
- Ruggedized computers
- Night vision
- Telecommunication infrastructure equipment

Product Information

Typical Properties

Property	Units	Test Method	Value
Composition			
Ferrous filled silicone	--	--	--
Electrical			
Surface Resistance Initial	Ω /square	CEPS-0002	>1M
Bulk Volume Resistivity Initial	$\Omega \cdot \text{cm}$	CEPS-0002	>1M
Permeability	--	ASTM D2520	1.76
Magnetic Loss Tangent	--	ASTM D2520	0.602
Permittivity	--	ATSM D2520	13.8
Dielectric Loss Tangent	--	ATSM D2520	0.15
Mechanical			
Operating Temperature Range	--	--	-50°C to 160°C
Tensile Strength	PSI (MPa)	ATSM D412	500 (3.44)
Elongation	(% min)	ATSM D412	200
Hardness	Shore A	ATSM D2240	55
Tear Strength	Lb/in (N/m)	ATSM D624	60 (10.5k)
Thermal			
Thermal Conductivity	W/m-K	ASTM D5470	9005 = 0.56 9025 = 0.87
Physical			
Specific Gravity	--	ATSM D792	3.4



Ordering Information

Part Number: 46-TA-1020-90XX

46 - **T** - **A** - **1020** - **90XX**

CHO-MUTE	Thickness, inch (mm)	Adhesive (PSA)	Sheet Size	
	1. 0.020 (0.51)	0. No Adhesive 1. Adhesive Backing	10" X 20" (25.4cm X 50.8cm)	9005 9025
	2. 0.032 (0.81)			
	3. 0.062 (1.57)			
	4. 0.093 (2.36)			
	5. 0.125 (3.18)			
	6. 0.125 (3.18)			
	7. 0.010 (0.25)			