

CHO-MUTE® 9005 & 9025

Microwave Absorber Materials UL 94 V-0 Flammability Rated

CHO-MUTE 9005 and 9025 elastomer based absorber materials are designed to offer a user friendly approach to the 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. They 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. A wide variety of fabricating techniques are available for custom part manufacturing.

Product Features

- Microwave absorption material covering a wide range of frequencies
- Up to 20 dB RF absorption
- Available in six standard thicknesses
- Flexible
- RoHS Compliant
- Global product availability
- UL 94V-0 certified

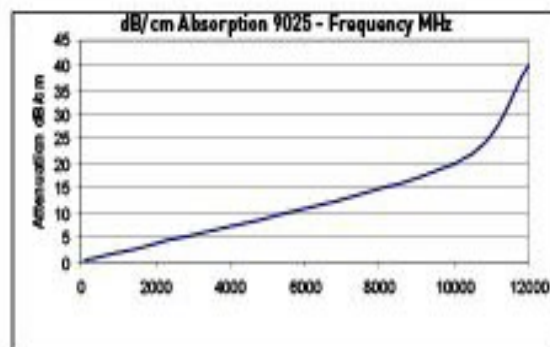
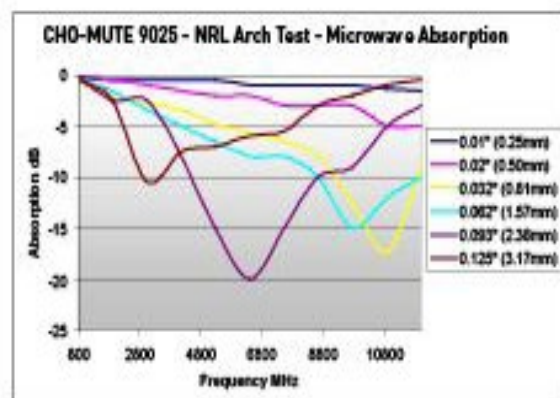
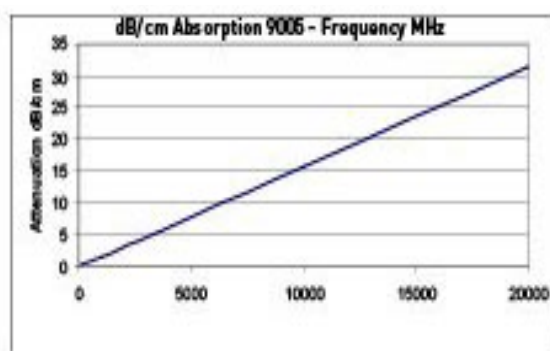
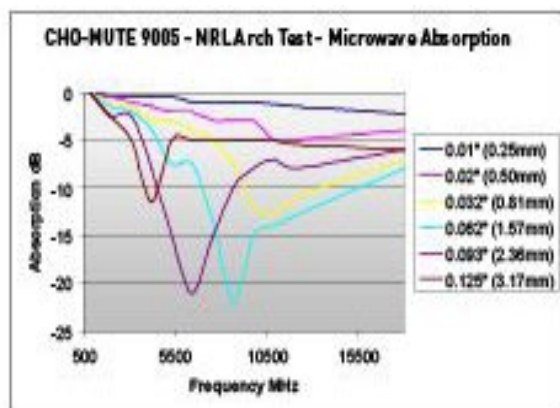
Typical Applications

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



CHO-MUTE® 9005 & 9025 PRODUCT INFORMATION

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



CHO-MUTE® 9005 & 9025 ORDERING INFORMATION

Part Number:	46	—	T	A	—	1020	—	90XX
	CHO-MUTE		Thickness, inch (mm)	Adhesive (PSA)		Sheet Size		9005 9025
			T	A		10" X 20"		
			7 0.010±.004 (0.25±.10)	0 No Adhesive Backing		(25.4cm X 50.8cm)		
			1 0.020±.004 (0.51±.10)	1 Electrically Conductive				
			2 0.032±.005 (0.81±.13)	Adhesive Backing				
			3 0.062±.007 (1.57±.18)					
			4 0.093±.010 (2.36±.25)	No adhesive is available on				
			5 0.125±.010 (3.18±.25)	.010 (.25) thick sheets				

Custom part numbers available upon request.



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CHODS1256 May 2026

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