

CHO-MUTE® 9009

High Frequency Microwave Absorber Material

Parker Chomerics CHO-MUTE® 9009 is an elastomer-based absorber material 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 carbon filler material, this material provides RF absorption performance at a high frequency range. CHO-MUTE® 9009 is capable of providing 50 dB/cm of absorption within the more broadband frequency range of 10 to 100 GHz. This absorption also applies to 77 GHz, a standard frequency used in the automotive industry. This material is offered as sheet stock of various thicknesses with or without electrically conductive pressure sensitive adhesive. This material is flexible, and can be easily cut and converted for use in empirical testing of absorption solutions.

CHO-MUTE® 9009 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

- Good absorption at high frequencies 10 to 100 GHz
- Available in molded profiles, sheets, or die-cut/water jet cut shapes (no grit)
- Can be supplied with a pressure sensitive adhesive (PSA)

Typical Applications

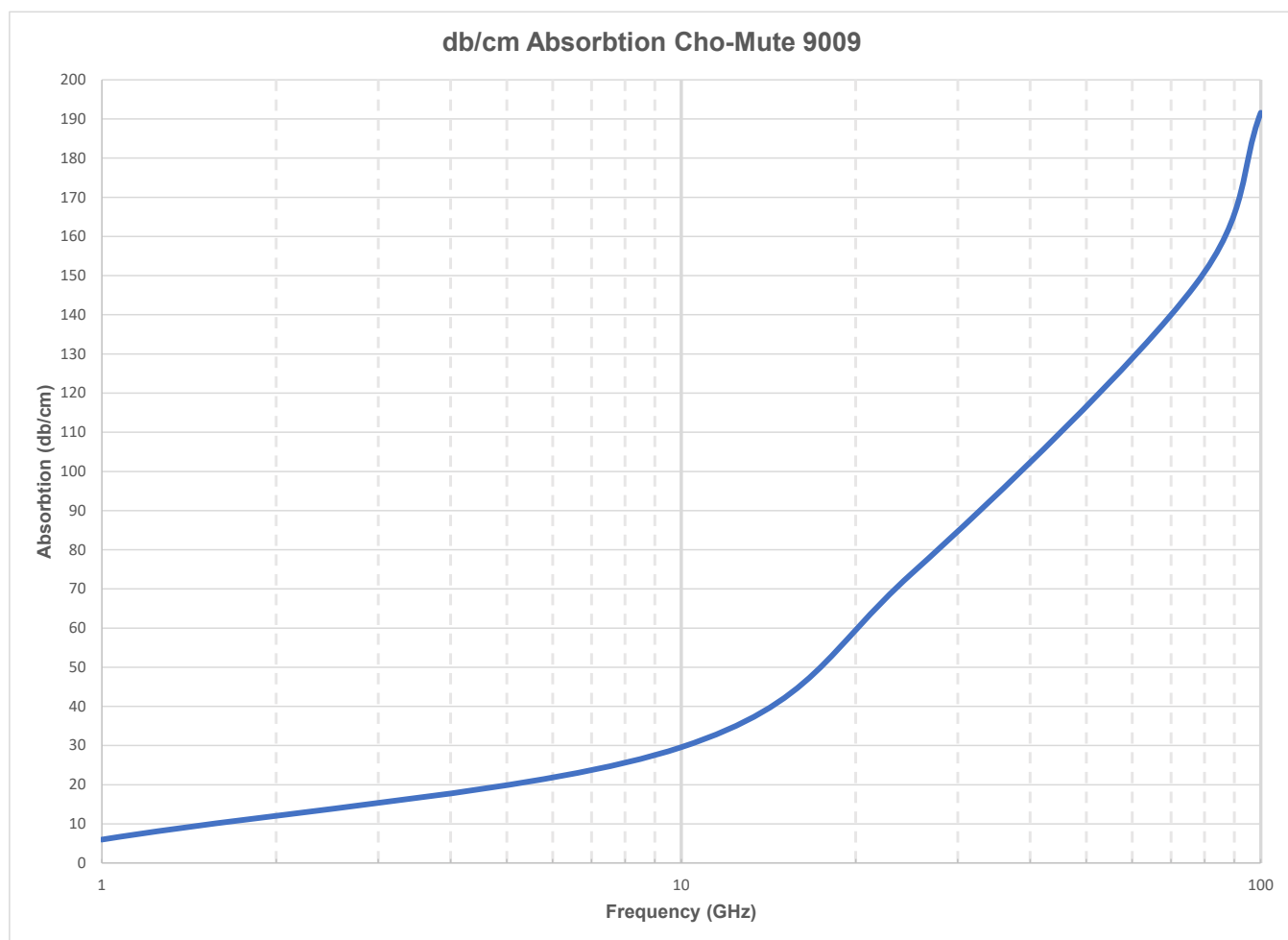
- Advanced Driver Awareness Systems (ADAS) at 77GHz
- Automotive
- Military and commercial radars
- Telecommunications equipment
- RF Testing
- Industrial applications



CHO-MUTE® 9009 PRODUCT INFORMATION

Typical Properties†		9009	Test Method
Physical	Elastomer	Silicone	--
	Filler	Carbon	--
	Specific Gravity	1.21 ± 0.25	ASTM D792
Electrical	Surface Resistance Initial Ω /square	>1M	CEPS-0002
	Bulk Volume Resistivity Initial Ω ·cm	>1M	CEPS-0002
	Electric Permittivity	10	ASTM D2520
	Dielectric Loss Tangent	0.08	ASTM D2520
Mechanical	Operating Temperature Range, °C (°F)	-50 to 160 (-58 to 320)	--
	Tensile Strength, psi (MPa)	932 (6.42)	ASTM D412
	Elongation, % min	640	ASTM D412
	Hardness, Shore A	50	ASTM D2240
	Tear Strength, lb/in (kN/m)	112 (19.6)	ASTM D624

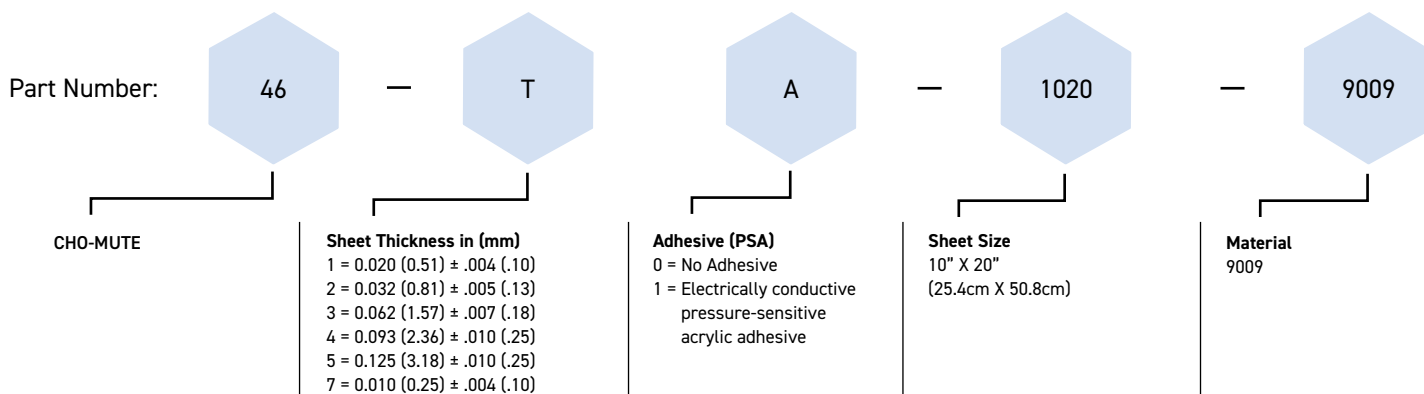
† Typical properties: these are not to be construed as specifications.



CHO-MUTE® 9009 ORDERING INFORMATION

Part Number: 46-TA-1020-9009

Customer part numbers available upon request.



Die-cut part tolerance table is available in the [Conductive Elastomer Engineering Handbook](#), which references Table 6-2 and has overall tolerances on flat die-cut gaskets, hole diameter, and thickness. Access it at parker.com/chomerics.



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