

Parker Chomerics CHO-MUTE 9025 Conductive Elastomer

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone

Material Notes:

Microwave Absorber Material. Elastomer microwave absorber is designed to offer wide band attenuation within operating frequencies of 500 MHz to 18 GHz. CHO-MUTE 9005 incorporates a high tech silicone polymer system that offers the benefit of wide band absorption and high permeability in a lightweight and flexible product form. Typical Applications: Hand held electronics; Wireless voice or data telecommunication; Military electronics; GPS; Ruggedized computers; Night vision and Telecommunication infrastructure equipment. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-MUTE-9025-Conductive-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.40 g/cc	3.40 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	ASTM D2240
Tensile Strength	3.44 MPa	499 psi	ASTM D412
Elongation at Break	>= 200 %	>= 200 %	ASTM D412
Tear Strength	10.5 kN/m	60.0 pli	ASTM D624

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.870 W/m-K	6.04 BTU-in/hr-ft ² -°F	ASTM D5470
Maximum Service Temperature, Air	160 °C	320 °F	
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+6 ohm-cm	>= 1.00e+6 ohm-cm	Bulk, Initial; CEPS-0002
Surface Resistivity per Square	>= 1.00e+6 ohm	>= 1.00e+6 ohm	Initial; CEPS-0002
Magnetic Permeability	1.76	1.76	ASTM D2520
Shielding Effectiveness	-20.0 dB	-20.0 dB	Microwave Absorption
	@Thickness 2.36 mm, Frequency 6.00e+9 Hz	@Thickness 0.0930 in, Frequency 6.00e+9 Hz	
	-15.0 dB	-15.0 dB	Microwave Absorption
	@Thickness 1.57 mm,	@Thickness 0.0620 in,	

Electrical Properties	Frequency 9.80e+9 Hz Metric	Frequency 9.80e+9 Hz English	Comments
	-13.0 dB @Thickness 0.813 mm, Frequency 1.08e+10 Hz	-13.0 dB @Thickness 0.0320 in, Frequency 1.08e+10 Hz	Microwave Absorption
	-12.0 dB @Thickness 1.57 mm, Frequency 1.08e+10 Hz	-12.0 dB @Thickness 0.0620 in, Frequency 1.08e+10 Hz	Microwave Absorption
	-11.0 dB @Thickness 0.813 mm, Frequency 1.28e+10 Hz	-11.0 dB @Thickness 0.0320 in, Frequency 1.28e+10 Hz	Microwave Absorption
	-11.0 dB @Thickness 15.7 mm, Frequency 8.80e+9 Hz	-11.0 dB @Thickness 0.620 in, Frequency 8.80e+9 Hz	Microwave Absorption
	-10.0 dB @Thickness 2.36 mm, Frequency 8.80e+9 Hz	-10.0 dB @Thickness 0.0930 in, Frequency 8.80e+9 Hz	Microwave Absorption
	-10.0 dB @Thickness 3.17 mm, Frequency 2.80e+9 Hz	-10.0 dB @Thickness 0.125 in, Frequency 2.80e+9 Hz	Microwave Absorption
	-10.0 dB @Thickness 0.813 mm, Frequency 8.80e+9 Hz	-10.0 dB @Thickness 0.0320 in, Frequency 8.80e+9 Hz	Microwave Absorption
	-7.00 dB @Thickness 1.57 mm, Frequency 6.80e+9 Hz	-7.00 dB @Thickness 0.0620 in, Frequency 6.80e+9 Hz	Microwave Absorption
	-7.00 dB @Thickness 3.17 mm, Frequency 4.80e+9 Hz	-7.00 dB @Thickness 0.125 in, Frequency 4.80e+9 Hz	Microwave Absorption
	-6.00 dB @Thickness 3.17 mm, Frequency 6.80e+9 Hz	-6.00 dB @Thickness 0.125 in, Frequency 6.80e+9 Hz	Microwave Absorption
	-6.00 dB @Thickness 2.36 mm, Frequency 1.08e+10 Hz	-6.00 dB @Thickness 0.0930 in, Frequency 1.08e+10 Hz	Microwave Absorption
	-6.00 dB @Thickness 0.813 mm, Frequency 6.80e+9 Hz	-6.00 dB @Thickness 0.0320 in, Frequency 6.80e+9 Hz	Microwave Absorption
	-5.00 dB	-5.00 dB	

Electrical Properties	Metric	English	Comments
	@Thickness 0.508 mm, Frequency 1.08e+10 Hz	@Thickness 0.0200 in, Frequency 1.08e+10 Hz	Absorption
	-4.00 dB	-4.00 dB	
	@Thickness 1.57 mm, Frequency 2.80e+9 Hz	@Thickness 0.0620 in, Frequency 2.80e+9 Hz	Microwave Absorption
	-3.00 dB	-3.00 dB	
	@Thickness 2.36 mm, Frequency 2.80e+9 Hz	@Thickness 0.0930 in, Frequency 2.80e+9 Hz	Microwave Absorption
	-3.00 dB	-3.00 dB	
	@Thickness 0.508 mm, Frequency 6.80e+9 Hz	@Thickness 0.0200 in, Frequency 6.80e+9 Hz	Microwave Absorption
	-3.00 dB	-3.00 dB	
	@Thickness 3.17 mm, Frequency 8.80e+9 Hz	@Thickness 0.125 in, Frequency 8.80e+9 Hz	Microwave Absorption
	-3.00 dB	-3.00 dB	
	@Thickness 0.254 mm, Frequency 1.08e+10 Hz	@Thickness 0.0100 in, Frequency 1.08e+10 Hz	Microwave Absorption
	-3.00 dB	-3.00 dB	
	@Thickness 0.813 mm, Frequency 2.80e+9 Hz	@Thickness 0.0320 in, Frequency 2.80e+9 Hz	Microwave Absorption
	-2.00 dB	-2.00 dB	
	@Thickness 0.254 mm, Frequency 6.80e+9 Hz	@Thickness 0.0100 in, Frequency 6.80e+9 Hz	Microwave Absorption
	-2.00 dB	-2.00 dB	
	@Thickness 3.17 mm, Frequency 1.08e+10 Hz	@Thickness 0.125 in, Frequency 1.08e+10 Hz	Microwave Absorption
	-1.00 dB	-1.00 dB	
	@Thickness 0.508 mm, Frequency 2.80e+9 Hz	@Thickness 0.0200 in, Frequency 2.80e+9 Hz	Microwave Absorption
	-1.00 dB	-1.00 dB	
	@Thickness 0.254 mm, Frequency 2.80e+9 Hz	@Thickness 0.0100 in, Frequency 2.80e+9 Hz	Microwave Absorption
	0.00 dB	0.00 dB	
	@Thickness 0.508 mm, Frequency 8.00e+8 Hz	@Thickness 0.0200 in, Frequency 8.00e+8 Hz	Microwave Absorption
	0.00 dB	0.00 dB	
	@Thickness 3.17 mm, Frequency 8.00e+8 Hz	@Thickness 0.125 in, Frequency 8.00e+8 Hz	Microwave Absorption

Electrical Properties	Metric	English	Comments
	@Thickness 0.254 mm, Frequency 8.00e+8 Hz	@Thickness 0.0100 in, Frequency 8.00e+8 Hz	Microwave Absorption
	0.00 dB	0.00 dB	
	@Thickness 2.36 mm, Frequency 8.00e+8 Hz	@Thickness 0.0930 in, Frequency 8.00e+8 Hz	Microwave Absorption
	0.00 dB	0.00 dB	
	@Thickness 0.813 mm, Frequency 8.00e+8 Hz	@Thickness 0.0320 in, Frequency 8.00e+8 Hz	Microwave Absorption
	0.00 dB	0.00 dB	
	@Thickness 1.57 mm, Frequency 8.00e+8 Hz	@Thickness 0.0620 in, Frequency 8.00e+8 Hz	Microwave Absorption
Dielectric Constant	13.8	13.8	ASTM D2520
Dielectric Loss Index	0.15	0.15	ASTM D2520

Descriptive Properties	Value	Comments
Composition	Ferrous filled silicone	
Magnetic Loss Tangent	0.602	ASTM D2520

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