

Parker Chomerics CHO-MUTE 9000 Microwave Absorber

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 9000 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. Applications: CHO-MUTE 9000 is effective in many applications to eliminate EMI/EMC problems in, transmitters, transceivers, microcontrollers, microprocessors etc. Hand held electronics, wireless voice or data telecommunications, infotainment, testing equipment, PDAs Military electronics C3I, navigation, GPS, ruggedized computers, night vision Antenna performance, surface current reduction Office and telecommunication infrastructure equipment, computing, switch gear, power amplifiers, routers Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-MUTE-9000-Microwave-Absorber.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	
Tensile Strength at Break	3.45 MPa	500 psi	
Elongation at Break	>= 200 %	>= 200 %	
Tear Strength	10.5 kN/m	59.9 pli	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.560 W/m-K	3.89 BTU-in/hr-ft ² -°F	
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	
Surface Resistivity per Square	>= 1.00e+6 ohm	>= 1.00e+6 ohm	
Shielding Effectiveness	-23.0 dB	-23.0 dB	Microwave Absorption
	@Thickness 1.57 mm, Frequency 8.00e+9 Hz	@Thickness 0.0620 in, Frequency 8.00e+9 Hz	
	-21.0 dB	-21.0 dB	Microwave Absorption

Electrical Properties	@Thickness 2.36 mm, Metric Frequency 6.00e+9 Hz	@Thickness 0.0930 in, English Frequency 6.00e+9 Hz	Comments
	-14.0 dB	-14.0 dB	Microwave Absorption
	@Thickness 1.57 mm, Frequency 1.05e+10 Hz	@Thickness 0.0620 in, Frequency 1.05e+10 Hz	
	-13.0 dB	-13.0 dB	Microwave Absorption
	@Thickness 0.813 mm, Frequency 1.05e+10 Hz	@Thickness 0.0320 in, Frequency 1.05e+10 Hz	
	-12.0 dB	-12.0 dB	Microwave Absorption
	@Thickness 3.17 mm, Frequency 4.00e+9 Hz	@Thickness 0.125 in, Frequency 4.00e+9 Hz	
	-10.0 dB	-10.0 dB	Microwave Absorption
	@Thickness 1.57 mm, Frequency 1.55e+10 Hz	@Thickness 0.0620 in, Frequency 1.55e+10 Hz	
	-7.00 dB	-7.00 dB	Microwave Absorption
	@Thickness 2.36 mm, Frequency 1.05e+10 Hz	@Thickness 0.0930 in, Frequency 1.05e+10 Hz	
	-7.00 dB	-7.00 dB	Microwave Absorption
	@Thickness 0.813 mm, Frequency 1.55e+10 Hz	@Thickness 0.0320 in, Frequency 1.55e+10 Hz	
	-7.00 dB	-7.00 dB	Microwave Absorption
	@Thickness 1.57 mm, Frequency 5.00e+9 Hz	@Thickness 0.0620 in, Frequency 5.00e+9 Hz	
	-7.00 dB	-7.00 dB	Microwave Absorption
	@Thickness 1.57 mm, Frequency 5.50e+9 Hz	@Thickness 0.0620 in, Frequency 5.50e+9 Hz	
	-7.00 dB	-7.00 dB	Microwave Absorption
	@Thickness 2.36 mm, Frequency 1.55e+10 Hz	@Thickness 0.0930 in, Frequency 1.55e+10 Hz	
	-6.00 dB	-6.00 dB	Microwave Absorption
	@Thickness 3.17 mm, Frequency 1.55e+10 Hz	@Thickness 0.125 in, Frequency 1.55e+10 Hz	
	-5.00 dB	-5.00 dB	Microwave Absorption
	@Thickness 3.17 mm, Frequency 5.50e+9 Hz	@Thickness 0.125 in, Frequency 5.50e+9 Hz	
	-5.00 dB	-5.00 dB	Microwave Absorption
	@Thickness 3.17 mm, Frequency 1.05e+10 Hz	@Thickness 0.125 in, Frequency 1.05e+10 Hz	

Electrical Properties	-5.00 dB Metric	-5.00 dB English	Comments Microwave Absorption
	@Thickness 0.508 mm, Frequency 1.05e+10 Hz	@Thickness 0.0200 in, Frequency 1.05e+10 Hz	
	-4.00 dB	-4.00 dB	Microwave Absorption
	@Thickness 0.508 mm, Frequency 1.55e+10 Hz	@Thickness 0.0200 in, Frequency 1.55e+10 Hz	
	-3.00 dB	-3.00 dB	Microwave Absorption
	@Thickness 0.254 mm, Frequency 1.55e+10 Hz	@Thickness 0.0100 in, Frequency 1.55e+10 Hz	
	-3.00 dB	-3.00 dB	Microwave Absorption
	@Thickness 0.508 mm, Frequency 5.50e+9 Hz	@Thickness 0.0200 in, Frequency 5.50e+9 Hz	
	-3.00 dB	-3.00 dB	Microwave Absorption
	@Thickness 0.813 mm, Frequency 5.50e+9 Hz	@Thickness 0.0320 in, Frequency 5.50e+9 Hz	
	-3.00 dB	-3.00 dB	Microwave Absorption
	@Thickness 2.36 mm, Frequency 2.50e+9 Hz	@Thickness 0.0930 in, Frequency 2.50e+9 Hz	
	-3.00 dB	-3.00 dB	Microwave Absorption
	@Thickness 1.57 mm, Frequency 2.50e+9 Hz	@Thickness 0.0620 in, Frequency 2.50e+9 Hz	
	-2.00 dB	-2.00 dB	Microwave Absorption
	@Thickness 0.254 mm, Frequency 1.05e+10 Hz	@Thickness 0.0100 in, Frequency 1.05e+10 Hz	
	-1.00 dB	-1.00 dB	Microwave Absorption
	@Thickness 0.254 mm, Frequency 5.50e+9 Hz	@Thickness 0.0100 in, Frequency 5.50e+9 Hz	
	0.00 dB	0.00 dB	Microwave Absorption
	@Thickness 0.254 mm, Frequency 5.00e+8 Hz	@Thickness 0.0100 in, Frequency 5.00e+8 Hz	
	0.00 dB	0.00 dB	Microwave Absorption
	@Thickness 0.508 mm, Frequency 5.00e+8 Hz	@Thickness 0.0200 in, Frequency 5.00e+8 Hz	
	0.00 dB	0.00 dB	Microwave Absorption
	@Thickness 0.813 mm, Frequency 5.00e+8 Hz	@Thickness 0.0320 in, Frequency 5.00e+8 Hz	
	0.00 dB	0.00 dB	Microwave Absorption
	@Thickness 1.57 mm, Frequency 5.00e+8 Hz	@Thickness 0.0620 in, Frequency 5.00e+8 Hz	

Electrical Properties	Frequency 5.00e+8 Hz Metric	Frequency 5.00e+8 Hz English	Comments
	0.00 dB	0.00 dB	
	@Thickness 2.36 mm, Frequency 5.00e+8 Hz	@Thickness 0.0930 in, Frequency 5.00e+8 Hz	Microwave Absorption
	0.00 dB	0.00 dB	
	@Thickness 3.17 mm, Frequency 5.00e+8 Hz	@Thickness 0.125 in, Frequency 5.00e+8 Hz	Microwave Absorption

Descriptive Properties	Value	Comments
Composition	Ferrous filled silicone	

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