

Parker Chomerics SOFT-SHIELD® 4004 Low Closure Force, Foam Core EMI Gasket

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane Foam, Unreinforced

Material Notes:

Description: Chomerics' SOFT-SHIELD 4000 Series materials are low-cost, low closure force EMI gaskets that provide effective shielding and grounding of commercial electronic devices, indoor enclosures and industrial equipment. Their availability in thin cross sections makes them an ideal choice for access panel, back plane or I/O connector panel shielding. Rectangular in cross section, the 4000 Series materials are constructed of a closed cell urethane foam that is machine wrapped with a fabric-reinforced aluminum foil. This combination provides the shielding performance of foil and the conformability and toughness of fabric. Each material includes conductive, pressure-sensitive adhesive on one side, which provides a means of gasket attachment without compromising shielding performance. The fabric-reinforced foil covering has no loose conductive fibers or sharp edges. Low compression set, low surface resistivities, and durability make 4000 Series gasketing an excellent EMI shielding solution. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-SOFT-SHIELD-4004-Low-Closure-Force-Foam-Core-EMI-Gasket.php

Mechanical Properties	Metric	English	Comments
Peel Strength	0.438 kN/m	2.50 pli	To Aluminum, Ambient Temperature; ASTM D1000
	0.438 kN/m	2.50 pli	To Steel, Ambient Temperature; ASTM D1000
	0.525 kN/m	3.00 pli	
	@Treatment Temp. 177 °C, Time 173000 sec	@Treatment Temp. 351 °F, Time 48.0 hour	To Steel; ASTM D1000
	0.5425 kN/m	3.096 pli	
	@Treatment Temp. 177 °C, Time 173000 sec	@Treatment Temp. 351 °F, Time 48.0 hour	To Aluminum; ASTM D1000
	0.6285 kN/m	3.586 pli	
	@Treatment Temp. 177 °C, Time 3600 sec	@Treatment Temp. 351 °F, Time 1.00 hour	To Steel; ASTM D1000
	0.700 kN/m	3.99 pli	
	@Treatment Temp. 177 °C, Time 3600 sec	@Treatment Temp. 351 °F, Time 1.00 hour	To Aluminum; ASTM D1000
	0.700 kN/m	3.99 pli	
	@Treatment Temp. 74.0 °C, Time 173000 sec	@Treatment Temp. 165 °F, Time 48.0 hour	95% RH, To Steel; ASTM D1000
	0.7175 kN/m	4.094 pli	

Mechanical Properties	Metric	English	Comments
	@Treatment Temp. 74.0 °C, Time 173000 sec	@Treatment Temp. 165 °F, Time 48.0 hour	95% RH, To Aluminum; ASTM D1000
	0.875 kN/m	4.99 pli	
	@Treatment Temp. 204 °C, Time 3600 sec	@Treatment Temp. 399 °F, Time 1.00 hour	To Steel; ASTM D1000
	0.8925 kN/m	5.093 pli	
	@Treatment Temp. 204 °C, Time 3600 sec	@Treatment Temp. 399 °F, Time 1.00 hour	To Aluminum; ASTM D1000
Compression Set	<= 20 %	<= 20 %	25% Deflection; ASTM D395 Method B

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	70.0 °C	158 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	0.0070 ohm	0.0070 ohm	Initial; CHO-TM-TP57
	@Temperature 121 °C, Time 605000 sec	@Temperature 250 °F, Time 168 hour	
	0.0070 ohm	0.0070 ohm	95% RH, Initial; CHO-TM-TP57
	@Temperature 35.0 °C, Time 605000 sec	@Temperature 95.0 °F, Time 168 hour	
	0.0090 ohm	0.0090 ohm	Initial; CHO-TM-TP57
	@Temperature 85.0 °C, Time 605000 sec	@Temperature 185 °F, Time 168 hour	
	0.010 ohm	0.010 ohm	95% RH, Final; CHO-TM-TP57
	@Temperature 35.0 °C, Time 605000 sec	@Temperature 95.0 °F, Time 168 hour	
	0.010 ohm	0.010 ohm	Initial; CHO-TM-TP57
	@Temperature 70.0 °C, Time 7.88e+6 sec	@Temperature 158 °F, Time 2190 hour	
	0.010 ohm	0.010 ohm	Final; CHO-TM-TP57
	@Temperature 70.0 °C, Time 7.88e+6 sec	@Temperature 158 °F, Time 2190 hour	
	0.014 ohm	0.014 ohm	Final; CHO-TM-TP57
	@Temperature 85.0 °C, Time 7.88e+6 sec	@Temperature 185 °F, Time 2190 hour	

Electrical Properties	Time 605000 sec Metric	Time 168 hour English	Comments
	0.017 ohm	0.017 ohm	
	@Temperature 121 °C, Time 605000 sec	@Temperature 250 °F, Time 168 hour	Final; CHO-TM-TP57
Shielding Effectiveness	80 dB	80 dB	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	CHO-TM-TP08
	90 dB	90 dB	
	@Frequency 1.00e+8 Hz	@Frequency 1.00e+8 Hz	CHO-TM-TP08
	93 dB	93 dB	
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	CHO-TM-TP08

Descriptive Properties	Value	Comments
Adhesion	>2.5 lb/in	Initial PSA, ASTM D1000
Compression Cycling	10000 cycles at 50% Deflection, Final	
	10000 cycles at 50% Deflection, Initial	
Compression-Deflection, 25% deflection	<1 to <5 psi	ASTM D3574 Modified
Core	PORON Urethane Foam	
Jacket	Fabric-Reinforced Aluminum Foil	
PSA Type	Chomerics Electrically Conductive Acrylic	

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