

Parker Chomerics SOFT-SHIELD® 4850 Multi-planar EMI Gasket

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

Description: SOFT-SHIELD® 4850 represents the latest advancement in EMI shielding gaskets based on Multi-planar, Z-axis conductive foam technology. SS4850 is based on the unique integration of electrically conductive silver-plated fibers into a low density urethane foam providing the basis for a performance driven, cost effective EMI shielding solution. Typical Applications: Applicable for I/O panels, backplanes, connectors, access panels along with rectangular/ square strip gasket seals; Telecom infrastructure rack and enclosure components; Servers, desktop PCs; LCD/PDP large screen TV's; Indoor electronics application requiring UL94 V-0 rating. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-SOFT-SHIELD-4850-Multi-planar-EMI-Gasket.php

Physical Properties	Metric	English	Comments
Deformation	5.0 %	5.0 %	65 mOhm/sq in, at .05 in/min, 1 sq in area sample, 1mm
	5.0 %	5.0 %	50 mOhm/sq in, at .05 in/min, 1 sq in area sample, 3mm
	5.0 %	5.0 %	70 mOhm/sq in, at .05 in/min, 1 sq in area sample, 5mm
	15 %	15 %	21 mOhm/sq in, at .05 in/min, 1 sq in area sample, 1mm
	15 %	15 %	30 mOhm/sq in, at .05 in/min, 1 sq in area sample, 3mm
	15 %	15 %	60 mOhm/sq in, at .05 in/min, 1 sq in area sample, 5mm
	30 %	30 %	22 mOhm/sq in, at .05 in/min, 1 sq in area sample, 1mm
	30 %	30 %	30 mOhm/sq in, at .05 in/min, 1 sq in area sample, 3mm
	30 %	30 %	55 mOhm/sq in, at .05 in/min, 1 sq in area sample, 5mm
	45 %	45 %	25 mOhm/sq in, at .05 in/min, 1 sq in area sample, 1mm
	45 %	45 %	25 mOhm/sq in, at .05 in/min, 1 sq in area sample, 3mm
	45 %	45 %	60 mOhm/sq in, at .05 in/min, 1 sq in area sample, 5mm
	25 %	25 %	ASTM C165 Mod
	@Pressure 0.0172 MPa	@Pressure 2.50 psi	
	50 %	50 %	

Physical Properties	Metric	English	ASTM C165 Mod Comments
	@Pressure 0.00896 MPa	@Pressure 1.30 psi	

Mechanical Properties	Metric	English	Comments
Tensile Strength	0.0683 MPa @Thickness 3.00 mm	9.90 psi @Thickness 0.118 in	ASTM D412
Compression Set	<= 15 %	<= 15 %	Gasket; ASTM D3574

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	70.0 °C	158 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Shielding Effectiveness	88 dB @Frequency 1.00e+10 Hz	88 dB @Frequency 1.00e+10 Hz	3mm x 25.4mm
	88 dB @Frequency 1.00e+10 Hz	88 dB @Frequency 1.00e+10 Hz	5mm x 25.4mm
	95 dB @Frequency 2.00e+7 - 1.00e+10 Hz	95 dB @Frequency 2.00e+7 - 1.00e+10 Hz	CHO-TM-TP08
	98 dB @Frequency 1.00e+8 Hz	98 dB @Frequency 1.00e+8 Hz	5mm x 25.4mm
	103 dB @Frequency 1.00e+10 Hz	103 dB @Frequency 1.00e+10 Hz	1.5mm x 25.4mm
	103 dB @Frequency 1.00e+9 Hz	103 dB @Frequency 1.00e+9 Hz	5mm x 25.4mm
	105 dB @Frequency 1.00e+8 Hz	105 dB @Frequency 1.00e+8 Hz	1.5mm x 25.4mm
	105 dB	105 dB	

Electrical Properties	Metric	English	3mm x 25.4mm Comments
	@Frequency 1.00e+8 Hz	@Frequency 1.00e+8 Hz	
	107 dB	107 dB	
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	3mm x 25.4mm
	110 dB	110 dB	
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	1.5mm x 25.4mm

Descriptive Properties	Value	Comments
Adhesive Peel Strength	ASTM D1000 (Modified to 90° peel)	

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