

Parker Chomerics CHO-SEAL 1287R Reinforced Conductive Elastomer Seal

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

Material Notes:

These materials are fabric-reinforced, silver-plated-aluminum filled EMI seals for airframe shielding applications. These seal materials can also be used to maintain surface electrical continuity at joints, seams and openings for radar cross section reduction. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-SEAL-1287R-Reinforced-Conductive-Elastomer-Seal.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 2.20 g/cc	1.70 - 2.20 g/cc	ASTM D792
	1.75 - 2.25 g/cc	1.75 - 2.25 g/cc	Base Material; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	Base Material; ASTM D2240
Tensile Strength at Break	>= 1.24 MPa	>= 180 psi	Base Material; ASTM D412
	2.41 MPa	350 psi	Reinforced Material - Fill; ASTM D412
	4.48 MPa	650 psi	Reinforced Material, warp; ASTM D412
Elongation at Break	>= 50 %	>= 50 %	Reinforced Material - Fill/Warp; ASTM D412
	>= 100 %	>= 100 %	Base Material; ASTM D412
Tear Strength	6.125 kN/m	34.95 pli	Base Material; ASTM D624
	30.625 kN/m	174.75 pli	Reinforced Material - Warp/Fill; ASTM D624
Compression Set	35 %	35 %	70 hrs @ 100°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	>= -55.0 °C	>= -67.0 °F	Low Temp Flex - Base Material, TR10
	>= -55.0 °C	>= -67.0 °F	Low Temp Flex - Reinforced Material, TR10

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.012 ohm-cm	0.012 ohm-cm	Reinforced Material; MIL-G-83528

Electrical Properties	Metric	English	Comments
	$\leq 0.015 \text{ ohm-cm}$	$\leq 0.015 \text{ ohm-cm}$	Post Tensile Strength; MIL-G-83528
Shielding Effectiveness	$\geq 55 \text{ dB}$	$\geq 55 \text{ dB}$	200 kHz (H Field) - Base/Reinforced Material; MIL-G-83528
	$\geq 90 \text{ dB}$	$\geq 90 \text{ dB}$	10 GHz (Plane Wave) - Base/Reinforced Material; MIL-G-83528
	$\geq 95 \text{ dB}$	$\geq 95 \text{ dB}$	2 GHz (Plane Wave) - Base/Reinforced Material; MIL-G-83528
	$\geq 100 \text{ dB}$	$\geq 100 \text{ dB}$	500 MHz (E Field) - Base/Reinforced Material; MIL-G-83528
	$\geq 110 \text{ dB}$	$\geq 110 \text{ dB}$	100 MHz (E Field) - Base/Reinforced Material; MIL-G-83528

Descriptive Properties	Value	Comments
Binder	Fluorosilicone	
EMP Survivability kA / in, min	0.9	
Filler	Ag/Al, Reinforced Material	
Grade	Military-Aerospace	
Heat Aging - Base Material ohm-cm max	0.015	
Heat Aging - Reinforced Material ohm-cm max	0.015	
Vibration Res, After - Base Material ohm-cm max	0.012	
	0.012	
Vibration Res, During - Base Material ohm-cm max	0.015	
	0.015	

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