

Parker Chomerics CHO-SEAL 1285R Reinforced Conductive Elastomer Seal

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

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-1285R-Reinforced-Conductive-Elastomer-Seal.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 - 2.10 g/cc	1.60 - 2.10 g/cc	ASTM D792
	1.65 - 2.15 g/cc	1.65 - 2.15 g/cc	Base Material; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	65	65	Base Material; ASTM D2240
Tensile Strength at Break	>= 1.38 MPa	>= 200 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	5.25 kN/m	30.0 pli	Base Material; ASTM D624
	35.0 kN/m	200 pli	Reinforced Material - Warp/Fill; ASTM D624
Compression Set	32 %	32 %	70 hrs @ 100°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 °C	320 °F	
Minimum Service Temperature, Air	>= -65.0 °C	>= -85.0 °F	Low Temp Flex - Base Material, TR10
	>= -65.0 °C	>= -85.0 °F	Low Temp Flex - Reinforced Material, TR10

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.0080 ohm-cm	0.0080 ohm-cm	Reinforced Material; MIL-G-83528

Electrical Properties	Metric	English	Comments
	<= 0.015 ohm-cm	<= 0.015 ohm-cm	Post Tensile Strength; MIL-G-83528
Shielding Effectiveness	>= 60 dB	>= 60 dB	200 kHz (H Field) - Base/Reinforced Material; MIL-G-83528
	>= 100 dB	>= 100 dB	10 GHz (Plane Wave) - Base/Reinforced Material; MIL-G-83528
	>= 105 dB	>= 105 dB	2 GHz (Plane Wave) - Base/Reinforced Material; MIL-G-83528
	>= 110 dB	>= 110 dB	500 MHz (E Field) - Base/Reinforced Material; MIL-G-83528
	>= 115 dB	>= 115 dB	100 MHz (E Field) - Base/Reinforced Material; MIL-G-83528

Descriptive Properties	Value	Comments
Binder	Silicone, Base Material	
EMP Survivability kA / in, min	0.9	
Filler	Ag/Al, Reinforced Material	
Grade	Military-Aerospace	
Heat Aging - Base Material ohm-cm max	0.01	
Heat Aging - Reinforced Material ohm-cm max	0.01	
Vibration Res, After - Base Material ohm-cm max	0.008	
	0.008	
Vibration Res, During - Base Material ohm-cm max	0.012	
	0.012	

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