

Parker Chomerics CHO-SEAL S6305 Conductive Elastomer

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

Material Notes:

Good performance in moderately corrosive environments; material of choice for flange finishes needing "bite-through" for good electrical contact. Molded and Extruded. RoHS Compliant. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-SEAL-S6305-Conductive-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 2.25 g/cc	1.75 - 2.25 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55 - 75	55 - 75	ASTM D2240
Tensile Strength at Break	>= 1.38 MPa	>= 200 psi	ASTM D412
Tensile Strength	1.40 MPa	203 psi	Test 2; ASTM D412
	1.19 MPa @Temperature 22.0 °C, Time 252000 sec	172 psi @Temperature 71.6 °F, Time 70.0 hour	50% RH, Exposure to Vinyl Protectant; ASTM D412
	1.21 MPa @Temperature 22.0 °C, Time 252000 sec	175 psi @Temperature 71.6 °F, Time 70.0 hour	50% RH, Exposure to Tire Cleaner; ASTM D412
	1.23 MPa @Temperature 22.0 °C, Time 252000 sec	178 psi @Temperature 71.6 °F, Time 70.0 hour	50% RH, Exposure to ClearVue®; ASTM D412
	1.36 MPa @Temperature 22.0 °C, Time 252000 sec	197 psi @Temperature 71.6 °F, Time 70.0 hour	50% RH, Exposure to Formula 409®; ASTM D412
	1.37 MPa @Temperature 22.0 °C, Time 252000 sec	199 psi @Temperature 71.6 °F, Time 70.0 hour	50% RH, Exposure to Cola; ASTM D412
	1.37 MPa @Temperature 22.0 °C, Time 252000 sec	199 psi @Temperature 71.6 °F, Time 70.0 hour	50% RH, Exposure to Tap Water; ASTM D412
	1.39 MPa @Temperature 22.0 °C, Time 252000 sec	202 psi @Temperature 71.6 °F, Time 70.0 hour	50% RH, Exposure to Windex®; ASTM D412

Mechanical Properties	1.43 MPa Metric	207 psi English	Comments
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	50% RH, Exposure to Carpet Cleaner; ASTM D412
	1.43 MPa	207 psi	50% RH, Exposure to Hairspray; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
	1.43 MPa	207 psi	50% RH, Exposure to Windshield Washer Solvent; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
	1.45 MPa	211 psi	50% RH, Exposure to Coffee; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
Elongation at Break	>= 100 %	>= 100 %	ASTM D412
	289 %	289 %	Test 1; ASTM D412
	414 %	414 %	Test 2; ASTM D412
	166 %	166 %	50% RH, Exposure to Windex®; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
	219 %	219 %	50% RH, Exposure to Formula 409®; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
	317 %	317 %	50% RH, Exposure to ClearVue®; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
	326 %	326 %	50% RH, Exposure to Hairspray; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
	418 %	418 %	50% RH, Exposure to Tire Cleaner; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
	418 %	418 %	50% RH, Exposure to Windshield Washer Solvent; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
	433 %	433 %	50% RH, Exposure to Vinyl Protectant; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
	433 %	433 %	

Mechanical Properties	Metric	English	Comments
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	50% RH, Exposure to Cola; ASTM D412
	439 %	439 %	50% RH, Exposure to Coffee; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
	439 %	439 %	50% RH, Exposure to Tap Water; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
	443 %	443 %	50% RH, Exposure to Carpet Cleaner; ASTM D412
	@Temperature 22.0 °C, Time 252000 sec	@Temperature 71.6 °F, Time 70.0 hour	
Tear Strength	8.75 kN/m	49.9 pli	ASTM D624
	<= 30 %	<= 30 %	
Compression Set	@Temperature 100 °C, Time 252000 sec	@Temperature 212 °F, Time 70.0 hour	ASTM D395 Method B

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.800 W/m-K	5.55 BTU-in/hr-ft ² -°F	ASTM D5470
	@Pressure 2.07 MPa	@Pressure 300 psi	
Maximum Service Temperature, Air	150 °C	302 °F	
Minimum Service Temperature, Air	-45.0 °C	-49.0 °F	Flex TR10; ASTM D1329
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.10 ohm-cm	0.10 ohm-cm	as supplied without pressure sensitive adhesive; CEPS-0002
	>= 75 dB	>= 75 dB	
Shielding Effectiveness	@Frequency 4.00e+10 Hz	@Frequency 4.00e+10 Hz	E Field; CHO-TM-TP08
	>= 100 dB	>= 100 dB	
	@Frequency 1.00e+8 Hz	@Frequency 1.00e+8 Hz	E Field; CHO-TM-TP08
	>= 100 dB	>= 100 dB	
	@Frequency 5.00e+8 Hz	@Frequency 5.00e+8 Hz	Plane Wave; CHO-TM-TP08
	>= 100 dB	>= 100 dB	

Electrical Properties	Metric	English	Comments
	@Frequency 2.00e+9 Hz	@Frequency 2.00e+9 Hz	Plane Wave; CHO-TM-TP08
	>= 100 dB	>= 100 dB	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	Plane Wave; CHO-TM-TP08

Descriptive Properties	Value	Comments
Binder	Silicone	
Filler	Ni/C	
Heat Aging	<0.25 ohm-cm	125°C for 48 hrs; CEPS-0002

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