

Techsil Conductive Elastomer LTE-60

LTE-60 is a Shore A 55 durometer hardness silicone elastomer filled with nickel coated graphite particles as the conductive and shielding media. This material has good shielding properties and conductivity and is tested within the parameters of MIL-DTL-83528, a conductive elastomer gasket specification governed by the DoD. This material has excellent sealing properties at temperature extremes, is ozone resistant and has a 20 year shelf life if stored in the absence of moisture, light and sulfur. LTE-60 provides a cost effective solution to your shielding gasket requirements. This material can be supplied as molded parts, extruded shapes, die cut parts, or as standard sheet stock. Please contact one of the professionals at Leader Tech for additional information regarding your specific application.

Elastomer:	Silicone
Filler Material:	Nickel Coated Graphite
Color:	Dark Grey (Custom colors available upon request)

Electrical Properties

Test Method

Property	Max.	Value	Test Method
Volume Resistivity (ohm-cm) (as supplied)	Max.	.100	MIL-DTL-83528 (Para. 4.5.10)
Shielding Effectiveness (db)	Actual		MIL-DTL-83528 (Para. 4.5.12) MIL-STD-285
20 MHz		119	
100 MHz		127	
600 MHz		126	
2 GHz		143	
10 GHz		126	

Electrical Stability

Property	Max.	Value	Test Method
After Heat Aging (ohm-cm)	Max.	.200	MIL-DTL-83528 (Para. 4.5.15)
After Break (ohm-cm)	Max.	.200	MIL-DTL-83528 (Para. 4.5.9)
During Vibration (ohm-cm)	Max.	.200	MIL-DTL-83528 (Para. 4.5.13)
After Vibration (ohm-cm)		.100	
After Exposure to EMP (ohm-cm) (0.9 KAmper/Inch of Perimeter)	Max.	.100	MIL-DTL-83528 (Para. 4.5.16)

Physical Properties

Property	Min.	Max.	Value	Test Method
Specific Gravity (+/-0.25)			1.9	ASTM D792 (MIL Para. 4.5.3)
Hardness (Shore A) (+/-7)			55	ASTM D2240 (MIL Para. 4.5.4)
Tensile Strength (PSI)	Min.		150	ASTM D412 (MIL Para. 4.5.6)
Elongation (%)	Min.		100	ASTM D412 (MIL Para. 4.5.6)
	Max.		300	
Tear Strength (PPI)	Min.		30	ASTM D624 (MIL Para. 4.5.8)
Compression Set (%)	Max.		25	ASTM D395 (MIL Para. 4.5.7)
Upper Operating Temp. (°C)	Max.		+160	Maximum Continuous Use Temperature
Lower Operating Temp. (°C)	Min.		-55	ASTM D1329 (MIL Para. 4.5.14)
Compression Deflection (%)	Min.		8	ASTM D575 (MIL Para. 4.5.5)
Fluid Immersion			NS	MIL-DTL-83528 (Para. 4.5.17)

SUR=Survivable NS=Not Survivable