



## Techsil Conductive Elastomer LTE-60-40D

**LTE-60-40D** is a Shore A 40 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 IAW MIL-DTL-83528. This material requires a lower compressive force in order to reach the desired state of compression. LTE-60-40D has excellent sealing properties at temperature extremes, is ozone resistant, and has a long shelf life if stored in the absence of moisture, light and sulfur. LTE-60-40D exhibits good performance in moderately corrosive environments and also provides a cost effective solution to your shielding gasket requirements. This material can be supplied as molded parts, die cut parts, extruded profiles, or as standard sheet stock. Please contact 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

Volume Resistivity (ohm-cm) (as received)	Max.	.100	MIL-DTL-83528 (Para. 4.5.10)
Shielding Effectiveness (db)	Typical		MIL-DTL-83528 (Para. 4.5.12) MIL-STD-285
20 MHz		110	
100 MHz		110	
600 MHz		105	
2 GHz		105	
10 GHz		100	

### Electrical Stability

After Heat Aging (ohm-cm)	Max.	.150	MIL-DTL-83528 (Para. 4.5.15)
After Break (ohm-cm)	Max.	.250	MIL-DTL-83528 (Para. 4.5.9)
During Vibration (ohm-cm)	Max.	.150	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.	.150	MIL-DTL-83528 (Para. 4.5.16)

### Physical Properties

Specific Gravity (+/-0.25)		1.9	ASTM D792 (MIL Para. 4.5.3)
Hardness (Shore A) (+/-7)		40	ASTM D2240 (MIL Para. 4.5.4)
Tensile Strength (PSI)	Min.	125	ASTM D412 (MIL Para. 4.5.6)
Elongation (%)	Min.	100	ASTM D412 (MIL Para. 4.5.6)
	Max.	300	
Tear Strength (PPI)	Min.	20	ASTM D624 (MIL Para. 4.5.8)
Compression Set (%)	Max.	40	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.	3.0	ASTM D575 (MIL Para. 4.5.5)
Fluid Immersion		NS	MIL-DTL-83528 (Para. 4.5.17)

SUR=Survivable NS=Not Survivable