

**LAIRD<sup>TM</sup> ELECTROSEAL<sup>TM</sup> ECE155**

The ELECTROSEAL<sup>TM</sup> ECE155 Electrically Conductive Elastomer from Laird Performance Materials is a silver graphite filled silicone elastomer. It has excellent EMI shielding at temperature extremes, ozone and pressure resistant, and has a long shelf life. This material is designed for molded and extruded EMI gaskets, or can be formed into sheets.

**FEATURES AND BENEFITS**

- Tan color
- Available for both molding and extrusion
- UL94V0 equivalent
- RoHS compliant and halogen free per IEC-61249-2-21 standard

**MARKETS**

- Telecom
- Datacom
- Industrial
- Automotive

**CHARACTERISTICS**

Item	Unit	Typical Value <sup>^1</sup>	Test Method
Base elastomer		Silicone	-
Conductive filler		Silver graphite	-
Color	-	Tan	Visual inspection
Density	g/cm3	1.9	ASTM D792
Hardness, Shore A <sup>^2</sup>	-	53	ASTM D2240
Volume resistivity	Ohm-cm	0.012	MIL-DTL-83528E Para 4.5.10
Tensile strength	MPa	1.2	ASTM D412
Elongation	%	192	ASTM D412
Tear strength	N/mm	10.2	ASTM D624 (die C)
Compression set	%	30	ASTM D395(B) 72hrs@100°C
Outgassing, TML	%	0.1	
Outgassing, CVCM	%	0.02	
Shielding Eff <sup>^3</sup>	dB	100	MIL-DTL-83528E para 4.5.12
Operation temp.	°C	-40 to 155	-
Flammability <sup>^4</sup>	-	V0 equivalent	UL94

<sup>^1</sup>: Typical values above are based on standard test methods.

<sup>^2</sup>: Typical hardness value; this will be varied with part size and processing process.

<sup>^3</sup>: Follow the standard of MIL-DTL-83528E PARA 4.5.12, average SE @10GHz

<sup>^4</sup>: Flame test is conducted on samples with 1.5 mm aluminum plates on both sides.

**SHELF LIFE**

12months at 23°C/60%R.H.

**Laird Performance Materials**  
**DuPont Electronics & Industrial**

Americas: +1 866 928-8181

Europe: +49 8031 2460 0

China: +86 7552 7141166

[www.laird.com](http://www.laird.com)



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