

ELECTROSEAL[™] ECE155 Electrically Conductive Elastomer

LAIRD[™] ELECTROSEAL[™] ECE155

The ELECTROSEAL[™] 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

ltem	Unit	Typical Value ^[^1]	Test Method
Base elastomer		Silicone	-
Conductive filler		Silver graphite	-
Color	-	Tan	Visual inspection
Density	g/cm3	1.9	ASTM D792
Hardness, Shore A ^[^2]	-	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℃
Outgassing, TML	%	0.1	
Outgassing, CVCM	%	0.02	
Shielding Eff ^[^3]	dB	100	MIL-DTL-83528E para 4.5.12
Operation temp.	°C	-40 to 155	-
Flammability ^[^4]	-	V0 equivalent	UL94

^1: Typical values above are based on standard test methods.

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

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

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

SHELF LIFE

12months at 23°C/60%R.H.

EM-ENSL-DS-ECE155_0322

Any information furnished by Laird Technologies, Inc. or any of its affiliates or agents ("Laird") is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird materials rests with the end user. Laird makes no warranties as to the fitness, merchantability, suitability or non-infringement of any Laird materials or products for any specific or general uses. Laird shall not be liable for incidental or consequential damages of any kind. All Laird products are sold pursuant to the Laird's Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2021 Laird Technologies, Inc. All Rights Reserved. Laird'''', Laird Technologies''', the Laird Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. DuPont[™] is a trademark or the gistered trademark of DuPont de Nemours, Inc. or an affiliate company thereof. Other marks may be owned by third parties. Nothing herein provides a license under any Laird or any third-party intellectual property rights.

Laird Performance Materials DuPont Electronics & Industrial

Americas: +1 866 928-8181 Europe: +49 8031 2460 0 China: +86 7552 7141166 www.laird.com

