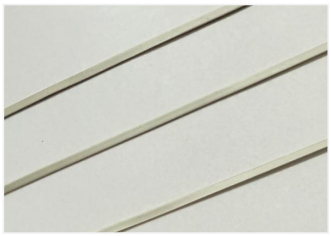
KLEBER

NYS-SEALOR® EC-707C Conductive Silicone Rubber Shielding Strip



NYS-SEALOR® EC-707C is a conductive silicone rubber prepared by a special process, with a structure composed of silicone rubber and a blackened silver silicone rubber coating. It is highly suitable for applications in small-sized conductive rubber strips. Its conductive layer has extremely low resistance and excellent electrochemical stability, ensuring a high level of EMI shielding performance. The unique preparation process of Kelanbo Technology ensures a uniform and consistent surface coating, high adhesion to the silicone rubber substrate, and reliable wear and corrosion resistance. The core of this conductive silicone rubber shielding strip is a non-conductive elastomer, which still has good compression and rebound properties even in very small sizes. It is an excellent choice for environmental sealing and electromagnetic shielding in small-sized and compact-structured products. The cost of non-conductive silicone rubber is much lower than that of conductive elastomers, and the conductive coating on the product surface is very thin. Therefore, this product is also highly competitive in terms of cost.

SPECIFICATIONS

Typical Performance		NYS-SEALOR®EC-707C	Unit	Test Method
Material		Inner foam silicone & Ecoating layer dark silver	-	-
Raw material size		1.6*0.35	mm	-
Density		1.8±0.2	g/cm³	ASTM D792
Hardness		60±5	Shore A	ASTM D2240
Volume Resistivity		0.004	ohm-cm	MIL-DTL-83528
Tensile Strength		200	PSI	ASTM D412
Elongation		100	%	ASTM D412
Tear Strength		45	PPI	ASTM D624
Shielding Effectiveness	500M	100	dB	MIL-DTL-83528
	2G	95	dB	MIL-DTL-83528
	18G	90	dB	MIL-DTL-83528
Working Temperature		-55~+160	℃	ASTM D1329

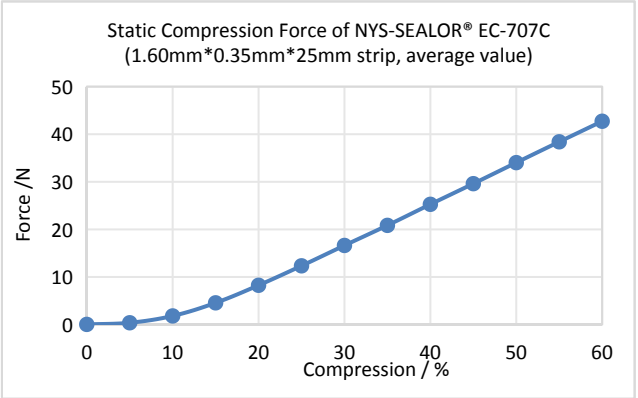
FEATURES & BENEFITS

- The elastic inner layer contains no metallic fillers, ensuring optimal compression performance and aging resistance.
- Very compact in size, ensuring a large compression range and low compression force.
- The conductive layer has extremely low resistance, ensuring excellent EMI shielding effectiveness.
- Special manufacturing process enables an ultra-thin conductive layer, providing distinct cost advantages.
- Conductive / non-conductive adhesive backing is available.
- Thanks to manufacturing flexibility and rapid response to customer customization, effective alternative solutions can be provided within a very short time.

APPLICATION

- High Speed Connector.
- High Speed Optical Module.
- Compact RF Module.
- Flexible, Wearable Device.

COMPRESSION-DEFLECTION CURVE



Declare
The recommendation and data furnished by Kleber is based on our experiment and experience to date.This information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application.Kleber shall not be liable for their usage and processing. The technology data sheet is subject to change without notice. The final interpretation right of the contents of this specification belongs to Kleber.