KLEBER

NYS-SEALOR® EC-707D E-coating Conductive Elastomer Gaskets



With special process and structure, E-Coating conductive elastomer is ideal for small-sized extruded strip applications. Its high conductivity and thin conductive layer not only has high level of EMI shielding performance but also has good electrochemical stability. The inner core of E-Coating gasket has non-conductive elastomer. It retains good compression and rebound characteristics in very small dimensions. E-coating elastomer is an excellent choice for environmental sealing and EMI shielding of small factor and compact structure. The inexpensive non-conductive elastomer core and thin outer layer metal coating make E-coating products economical and competitive in the market.

NYS-SEALOR® EC-707D, dark Ag conductive particles are the primary ingredient in the coating. These metals show excellent EMI shielding effectiveness. Coating process gives opportunities for developing irregular geometry products. Defense and high-speed telecommunications could adopt this type of products for high end solutions.

SPECIFICATIONS

Typical Performance		NYS-SEALOR®EC-707D	Unit	Test Method
Material		Inner foam silicone & ecoating layer dark silver	-	-
Raw material size		2.5*2.5	mm	-
Hardness		25	Shore A	ASTM D2240
Volume Resistivity		0.004	ohm-cm	MIL-DTL-83528C
Tensile Strength		200	PSI	ASTM D412
Elongation		100	%	ASTM D412
Tear Strength		45	PPI	ASTM D624
Shielding Effectiveness	500M	100	dB	MIL-DTL-83528C
	2G	95	dB	MIL-DTL-83528C
	18G	90	dB	MIL-DTL-83528C
Compression Set		10	%	ASTM D395
Working Temperature		-55~+160	℃	ASTM D1329

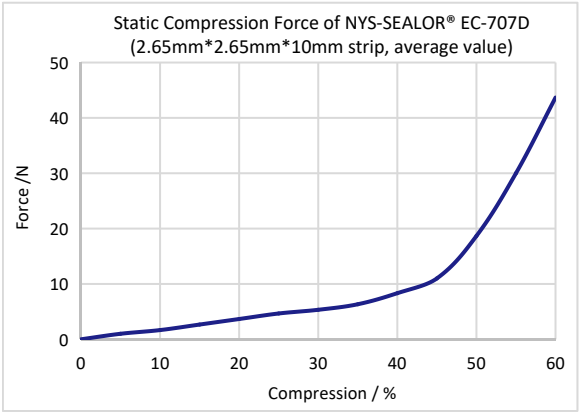
FEATURES & BENEFITS

- Resilient inner core remains free of metal fillers, resulting in optimum compression and aging properties.
- Silver conductive material is only present in the outer thin membrane, resulting in excellent conductive properties.
- Thin silver layer permits reduction of costly silver content required.
- Attenuation performance is not degraded under full compression as with solid-filled elastomers.
- Compared with solid silicone core, design with foam silicone shows much lower compression force and resistance to deformation.
- Manufacturing flexibility and quick turn around of custom designs. Viable short run alternative.
- Easy termination. No requirements for end treatment.
- Available with a variety of optional conductive metals.

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.