KLEBER

NYS-SEALOR® EC-701 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-701, with special process, Ag/G conductive layer is tightly bonded with the inner non-conductive elastomer. EC-701 is mainly used in high-speed connector, optical receiver and RF module.

SPECIFICATIONS

Typical Performance		NYS-SEALOR®EC-701		Unit	Test Method
		Conductive	Non-Conductive		
Binder		Silicone	SR 300	-	-
Conductive Particle		Ag/G	-	-	-
Thickness		0.05	-	mm	-
Hardness		60	55	Shore A	ASTM D2240
Density		2.1	1.2	g/cm^3	ASTM D792
Volume Resistivity		0.006	-	Ohm-cm	MIL-DTL-83528C
Shielding Effectiveness	500M	100	-	dB	MIL-DTL-83528C
	2G	95	-	dB	MIL-DTL-83528C
	18G	90	-	dB	MIL-DTL-83528C
Working Temperature		-55~+160		℃	ASTM D1329

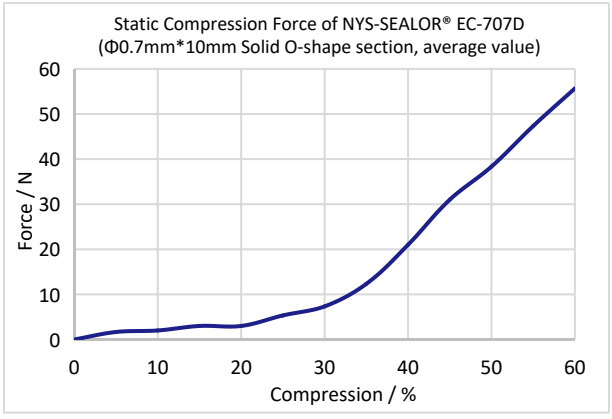
FEATURES & BENEFITS

- Elastic core with no metal filler, with optimal compression and aging characteristics.
- The conductive layer material is evenly coated on the outer layer, with excellent electrical properties.
- Cost-saving in conductive particles through a special coating process without sacrificing electrical conductivity and shielding performance.
- Compared to fully filled conductive particle ECE product, no reduction in attenuation at full compression force.
- Very low compressive force and resistance to deformation.
- Manufacturing flexibility and quick turn around of custom designs. Viable short run alternative.

APPLICATION

- Base Station.
- High Speed Connector & Optical Module.
- Compact RF Module.
- Telecommunications.
- 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.