

# 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 <sup>3</sup>	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		°C	ASTM D1329

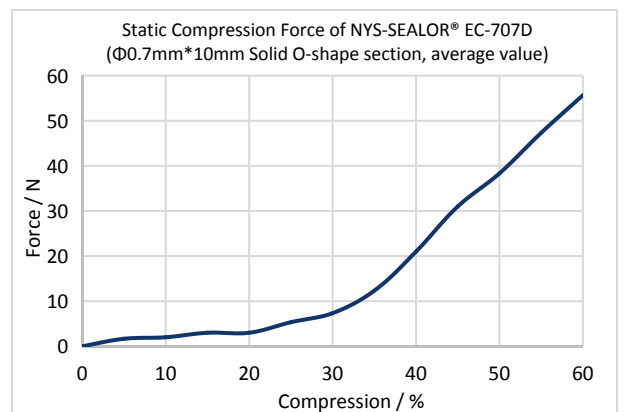
### FEATURES & BENEFITS:

- 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:

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