KLEBER

NYS-SEALOR® ECE 503C Conductive Elastomer Gaskets

Using silicone elastomer as the main substrate, mixed with conductive particles with good conductive properties, ECE is a compound made through a series of complex mixing, curing and other processing techniques. It is the perfect combination of flexibility of the silicone elastomer and high conductivity of conductive particles, not only suitable for conductive grounding and EMI shielding, but also ideal to achieve environmental sealing.

The filler of NYS-SEALOR® ECE503C is nickel-coated graphite; it is cost effective and very light, suitable for commercial and consumer electronics applications.



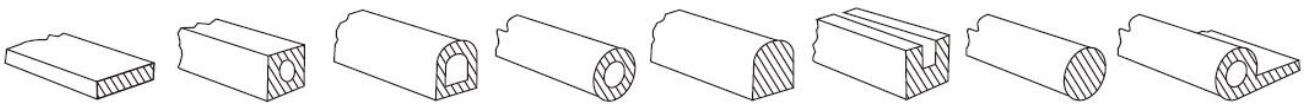
SPECIFICATIONS

Typical Performance		NYS-SEALOR®ECE 503C	Unit	Test Method
Binder		Silicone	-	-
Conductive Particle		Ni/C	-	-
Color		Dark gray	-	Visual
Hardness		70	Shore A	ASTM D2240
Density		2.0	g/cm^3	ASTM D792
Volume Resistivity		0.08	ohm-cm	MIL-DTL-83528C
Tensile Strength		350	PSI	ASTM D412
Elongation		350	%	ASTM D412
Tear Strength		90	PPI	ASTM D624
Shielding Effectiveness	500M	100	dB	MIL-DTL-83528C
	2G	100	dB	MIL-DTL-83528C
	10G	100	dB	MIL-DTL-83528C
Compression Set		30	%	ASTM D395
Working Temperature		-55~+170	℃	ASTM D1329

FEATURES & BENEFITS

- Low resistance and excellent shielding performance.
- Excellent environmental tightness performance.
- Wide temperature range for operation, even at extreme temperatures - typically -55℃ to +170℃ and also for special temperature applications.
- Excellent mechanical properties, flexibility and long-term durability.
- Products can be provided in sheet, die-cut or molded gaskets, extrusion strips or required profiles.

COMMON PROFILES



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.