



ALVAS Rubber Products Ltd.

19, Lazarov st, Rishon - LeZion 75654, ISRAEL.

e-mail: info@alvas.co.il

Tel.972-3-9511664,Fax.972-3-9511681

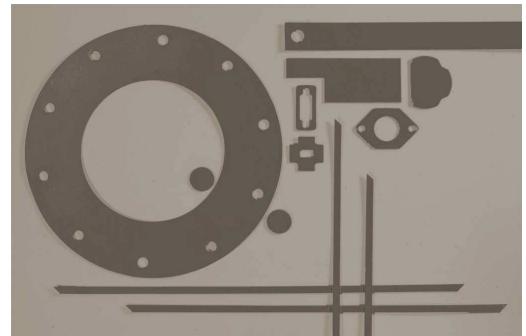
e-Sil 300 Series

Conductive Nickel-Graphite Silicone

e-Sil 300 series is composed of a silicone elastomer filled with Nickel plated Graphite particles exhibiting high electrical conductivity, providing highly effective shielding and offering excellent moisture sealing. These excellent performance coupled with enhanced environmental resistance with non or very slight deterioration of conductivity and shielding effectiveness in adverse environment enable wide range of commercial and military applications.

Both **e-Sil 367** and **e-Sil 366** are high performance materials, in high and low hardness.

- Good tensile and Tear strength.
- Very good compression set to maintain sealing force over very long period of time.
- Effective over a wide range of temperatures.
- Good sealing under moderate closing force.
- Improved mechanical properties enables molding of complicated geometries and delicate parts.
- The material provides cost effective production solutions.
- Available in sheets in every thickness and custom die-cut parts with or without pressure sensitive adhesive.
- Available as custom molded parts.



Physical Properties	Typical Values		Test Method
	e-Sil366	e-Sil367	
Grade Name	e-Sil366	e-Sil367	
Elastomer binder	Silicone		
Conductive filler	Nickel Plated Graphite Particles		
Color	Beige		
Operational Temperature, °C	(-45) to (+150)		
Hardness, Shore A, ± 7	60	70	ASTM D-2240
Tensile Strength, Mpa (psi), ±1.5	2.5	2.8	ASTM D-412
Elongation, %, ±6.0	250	225	ASTM D-412
Tear Strength kN/m (lb/in) , ±6.0	11.0	14	ASTM D-624
Specific Gravity, gr/cm ³ , ±0.30	1.5	2.0	ASTM D-792
Compression Set, 70hr@100°C, Max	25	30	ASTM D-395
Volume Resistivity, Ω-cm	0.047	0.018	Mil-DTL-83528
Shielding Effectiveness			
H-Field, 100 kHz, dB	90	90	SAE ARP1705
E-Field, 100 MHz-10GHz, dB	125	125	Mil-DTL-83528B
E-Field, 400 MHz-10GHz, dB	125	125	Mil-DTL-83528B
Plane Wave, 2 GHz, dB	115	115	Mil-DTL-83528B
Plane Wave, 10GHz, dB	115	115	Mil-DTL-83528B