

ELPACTO[®] Conductive Elastomer

Glossary

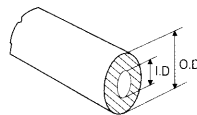
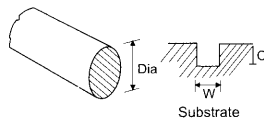
Conductive Elastomer materials are ideal for many customer applications where excellent EMI shielding, high conductivity need and environmental sealing across a wide temperature range. Various kinds of raw-material(Silver coated copper, Silver coated aluminum, Nickel coated graphite, Conductive Carbon, etc) are available by customer required environment. Also, it is available for standard and custom configurations including extruded, molded, sheet stock, and die cut gaskets.



Technical Data

Conductive Filler	Electrically Conductive Silicones				Test method	
	SC (Silver/Copper)	SA (Silver/Aluminum)	NC (Nickel/Graphite)	CC (Coated Carbon)		
Binder	Silicone					
Electrical Properties	Volume Resistivity($\Omega \cdot \text{cm}$)	0.02	0.08	0.1	7	ASTM D257
	Shielding Effectiveness(dB)	> 80	> 70	> 40	> 20	ASTM 4935
	Specific Gravity	3.8 ± 0.2	2.0 ± 0.2	3.0 ± 0.2	1.3 ± 0.2	ASTM D792
Physical Properties	Hardness(Shore A)	$50 \sim 80 \pm 5$	$50 \sim 80 \pm 5$	$50 \sim 80 \pm 5$	$60 \sim 70 \pm 5$	ASTM D2240
	Tensile Strength(kgf/cm ²)	30 [430 psi]	20 [285 psi]	20 [285 psi]	60 [850 psi]	ASTM D412
	Tear Strength(kN/m)	7	6	7	17	ASTM D6248
	Elongation(%)	200	200	200	330	ASTM D412
	Service Temp. (°C)	-50 ~ 125	-50 ~ 150	-50 ~ 150	-50 ~ 170	

Application



- Cable entries in casings
- Electronic equipment casings or frames
- Entrance which should be dustproof and waterproof

