

VGD450CL

Silicone Sponge Electrically Conductive (Closed Cell)

Description & Features

This electrically conductive silicone sponge has been developed for use in electronic applications where antistatic properties are required. This material has very good flame retardant characteristics. It is excellent for vibration damping and cushioning components, heat insulation and heat resistance.

- Closed cell with nearly no water absorption. Dust ingress protection to IP65 / IP66/ IP67 (design dependent).
- Meets the horizontal flammability test FAR 25/JAR 25/CS 25 APP. F, Part 1, (a) (1) (iv) and (a) (1) (v).
- Meets Automotive Standard PART 571MVSS302
- Meets requirements for UL94 HB (not certificated)
- No toxic combustion/smoke gases
- Plasticizer Free

Material Properties

Description	110-24	Malara	Total Marsh and
Property	Unit	Value	Test Method
Density	Kg/m³	450-500 ±60	DIN 53504
			ISO / DIS 37
Hardness	° Shore A	25-30±5 (typ. 27±5)	DIN EN ISO 53505
			DIN EN ISO 868
Tensile Strength	MPa	min. 3	DIN 53504
			ISO / DIS 37
Elongation	%	min. 150 (typ. 175)	DIN 53504
			ISO / DIS 37
Compression Set 22h 175°C	%	40.0 ±5	BSENSIO 815
Electrical Resistivity	Ω·cm	1000	Ω·cm
Temperature Range	°C	-60 to +220/230	ASTM D746
Thermal Conductivity	W/mK	0.07	VDE 0304
Radiation Resistance	Grays (Rads)	10 ⁵ (10 ⁷)	
Limiting Oxygen Index	%		BS 2872 Part 1

Density & hardness are related to cross-section/thickness and are only guidelines. Smaller/thinner samples will have higher density/hardness, determined by the material's cellular structure.

Resistance Characteristics

This silicone sponge is resistant to:

- UV
- Weathering
- Many diluted acids & bases
- Ozone
- Corona discharge
- Certain oil types
- Oxidation
- Cosmic and ionizing radiation.

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ISO 9001
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ISO 14001 Environmental Management