

Technical Data Sheet: ZSM500

Medium Hardness Silicone Foam



ZSM500 is a silicone foam product, which is specifically developed according to the needs of industrial market environment sealing. As medium hardness product, it is highly compressible, excellent resilience performance and long-term working stability. It is an ideal choice for industrial support foam.

Silicone Foam



Characteristics

- Range of thickness from 0.8~20.0mm
- Have good resistance to compression set, resilience and stress relaxation
- Soft and can make up for tolerance
- Resistance to UV, ozone, extreme temperatures and flame enables the consistent performance

Applications

- Suitable to be used as floating floor support
- For liquid cooling plate support inside battery pack
- As cushioning pads and gaskets

Properties

Properties	ZSM500	Standard
Colour	Grey, Black	-
Thickness (mm)	0.8 ~ 20.0 ± 10%	ASTM D374/D374M
Density (kg/m ³)	500	ASTM D1056
Tensile Strength, min (kPa)	400	ASTM D412
Elongation at Break, min (%)	70	ASTM D412
Compression Force Deflection (kPa)	110	ASTM D1056
Compression Set (max 50%, 100°C) (%)	< 5	ASTM D1056 Test D
Water absorption (%)	3	ASTM D1056

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Properties	ZSM500	Standard
Thermal Conductivity (W/m.K)	0.076	ASTM E1461
Dielectric Strength (kV/mm)	7.45	ASTM D149
Volume Resistivity (Ω .cm)	$> 10^{12}$	ASTM D257
Flammability	V-0, HF-1	UL94
Recommended Temperature ($^{\circ}$ C)	-55 ~ 200	SAE J-2236