

Technical Data Sheet: ZSF-40S

Soft Silicone Foam



ZSF-40S is a soft silicone foam that has the characteristics of elasticity, compression resistance, creep resistance, flame resistance and fireproof. It meets the requirements of rail transit, aerospace and other industries requirements. In addition, it has excellent environmental aging resistance, chemical resistance and sufficient reliability.

Soft Silicone Foam ----->



Characteristics

- Long-term compression and repeated compression with excellent elastic retention ability reduce the replacement costs of cushion and shock absorption gasket
- Anti-ultraviolet radiation, ozone resistance, extreme temperature resistance and flame resistance make materials stable in complex environments

Applications

- Suitable to be used as environmental sealing, dustproof, waterproof, moisture proof or shading, such as battery pack seal, electrical control cabinet
- Vibration isolation, cushioning, filling, such as electric vehicle interiors, battery pack interior, train interior, etc.
- As flame retardant, insulating material and so on

Properties

Properties	ZSF-40S			Standard
Colour	Black			-
Standard Thickness (mm)	$1.5 \leq T \leq 3$	$3 \leq T \leq 7$	$7 \leq T \leq 15$	ASTM D1056
Density (kg/m ³)	260 ± 40	260 ± 40	260 ± 40	ASTM D1056
Tensile Strength (kPa)	≥ 180	≥ 150	≥ 140	ASTM D412
Elongation at Break (%)	≥ 80	≥ 80	≥ 80	ASTM D412
Compression Force at 25% Deflection (kPa)	15 ~ 25	30 ~ 45	25 ~ 45	ASTM D1056
Compression Set, Test D at 100°C (%)	< 5			ASTM D1056
Flame Resistance	V-0			UL-94
Oxygen Index (%)	32			EN ISO 4589-2
Smoke Density	224			EN ISO 5659-2
Total Toxicity Coefficient	0.05			NF X 70-100

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Properties	ZSF-40S	Standard
Dielectric Strength (kV/mm)	3.5	ASTM D149
Thermal Conductivity (W/(m.K))	0.06	ASTM C518
Recommended Temperature (°C)	-55 ~ 200	SAE J-2236
Recommended Max Temperature for Intermittent Use (°C)	250	-

Remark: Technical Data Sheet reflect the average performance of products based on data from controlled standard testing environments and engineering experience but are not guaranteed. User should independently determine the suitability of this material for their specific purpose, assume all risk and liability associated with such use.