

Technical Data Sheet: ZSF-1150S

Firm Silicone Foam



ZSF-1150S is a firm silicone foam that has the characteristics of high 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 and chemical resistance.

Firm 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
- Applicable to GB/T 31467 Electric Vehicle Lithium-ion Power Battery Package and System requirements

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-1150S			Standard
Colour	Dark Grey			-
Standard Thickness (mm)	$1 \leq T \leq 3$	$3 \leq T \leq 7$	$7 \leq T \leq 12$	ASTM D1056
Density (kg/m ³)	500 ± 100	400 ± 40	390 ± 40	ASTM D1056
Tensile Strength (kPa)	≥ 500	≥ 350	≥ 350	ASTM D412
Elongation at Break (%)	≥ 70	≥ 70	≥ 70	ASTM D412
Compression Force at 25% Deflection (kPa)	140 - 240	110 - 150	100 - 140	ASTM D1056
Compression Set, Test D at 100°C (%)	< 5	< 5	< 5	ASTM D1056
Flame Resistance	HF-1	HF-1 ($< 5\text{mm}$) V-0 ($\geq 5\text{mm}$)	V-0	UL-94
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.