

Technical Data Sheet: ZSF-30F

Extra Soft Silicone Foam



ZSF-30F is an extra soft silicone foam. It has the characteristics of high elasticity, compression resistance, creep resistance, flame resistance and fireproof. It is suitable for sealing, shock absorption, cushioning, thermal insulation and other applications, and meets electric vehicles, energy storage, photovoltaic, industry, consumer electronics and other industry requirements. In addition, it has excellent environmental aging resistance and chemical mediator resistance and sufficient reliability.

Extra Soft Silicone Foam



Characteristics

- Long-term compression and repeated compression with excellent elastic retention ability to reduce the replacement costs of cushion and shock absorption gasket
- Anti-ultraviolet radiation and 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 electronic products shell, lamp contour, electronic components around, etc.
- Vibration isolation, cushioning, filling, such as electric vehicle interiors, battery pack interior, energy storage, etc.
- As flame retardant, insulating material and so on

Properties

Properties	ZSF-30F			Standard
Colour	White, Black			-
Standard Thickness (mm)	$2.39 \leq T \leq 3$	$3 < T \leq 7$	$7 < T \leq 15.88$	-
Density (kg/m ³)	170 ~ 250			ASTM D1056
Tensile Strength (kPa)	≥ 170	≥ 150	≥ 100	ASTM D412
Elongation at Break (%)	≥ 70	≥ 60	≥ 60	ASTM D412
Compression Force Deflection (kPa)	13 – 25	15 – 25	13 - 25	ASTM D1056
Compression Set (100°C, 22hrs, 50%) (%)	< 5			ASTM D1056
Water Absorption (%)	< 10			-
Flame Resistance	V-0			UL-94
Dielectric Strength (kV/mm)	3.0			ASTM D149
Thermal Conductivity (W/(m.K))	0.06			ASTM C518
Recommended Temperature (°C)	-55 ~ 200			SAE J-2236

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.