

Technical Data Sheet: ZSM600

High Hardness Silicone Foam



ZSM600 is a silicone foam product, which is specifically developed according to the needs of industrial market environment sealing. As high hardness product, it has more excellent durability and sealing, higher tear and tensile strength compared to medium hardness silicone foam products. It is an ideal choice to protect outdoor communications, lightning and electronics from wind, rain, dust and fire



Characteristics

- Range of thickness from 0.8~20.0mm
- Have good resistance to compression set, resilience and stress relaxation
- Stable performance in extreme environments such as ultraviolet rays, ozone and extreme temperatures.
- UL94 V-0, HF-1 level of flame retardant properties

Applications

- Suitable to be used as gaskets for more demanding endurance and high closing force with stringent requirements for consistency and uniformity at elevated temperatures
- Environmentally sealed

Properties

Properties	ZSM600	Standard
Colour	Grey, Black	-
Thickness (mm)	0.8 ~ 20.0 ± 10%	ASTM D374/D374M
Density (kg/m ³)	550	ASTM D1056
Tensile Strength, min (kPa)	600	ASTM D412
Elongation at Break, min (%)	90	ASTM D412
Compression Force Deflection (kPa)	150	ASTM D1056
Compression Set (max, 50%, 100°C) (%)	< 5	ASTM D1056
Water absorption (%)	3	ASTM D1056

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Properties	ZSM600	Standard
Thermal Conductivity (W/m.K)	0.080	ASTM E1461
Dielectric Strength (kV/mm)	4.50	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