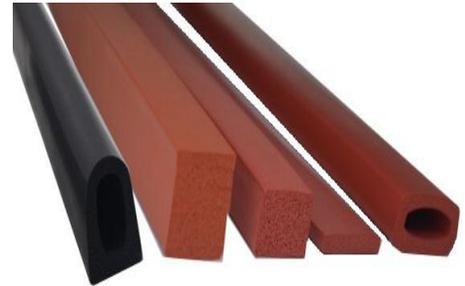


FUTUREWAY®SR-1150

Extruded Flame Retardant Silicone Sponge

FUTUREWAY®SR-1150 is a high-performance silicone sponge formed by extrusion process. It has many outstanding characteristics, such as high mechanical properties, very low water absorption, high elasticity, flame retardant, etc. Sponge roll materials with various profile sizes, different colors, and different foaming ratios can be customized. It is a better choice for indoor and outdoor applications in sealing, shock absorption, and protection.



Features & Benefits

- Meets UL 94 highest flame retardant rating
- Closed-cell structure, extremely low water absorption rate, meets higher IP protection level
- Surface skinning makes the silicone sponge have higher mechanical strength, which fully meets the requirements of application mechanics
- Anti-ultraviolet, anti-ozone, and extreme temperature resistance, reliable performance in complex environments

Typical Applications

- Environmental sealing, dustproof, waterproof, moisture-proof or shading, such as cabinet sealing, LED lighting sealing, etc.
- Vibration reduction and protection, such as shock absorption of electrical modules, and surrounding protection of electrical components

Services

- Available with a pressure sensitive-adhesive on one or two sides
- Linear products with special-shaped cross-sections, different colors and foaming ratios can be customized

Use

For PSA options, surfaces must be clean and free of oil, grease, moisture, dust and dirt. Isopropyl alcohol is good for cleaning the surface.

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Typical Properties

Property	Unit	Test Method	Typical Value
Physical			
Section Shape	-	Visual	Rectangle, square, D-shaped, O-shaped, etc.
Standard Colors	-	Visual	Red, Grey, Black
Hardness	Shore AO	ISO 7619-1	25
Density*	kg/m ³	ASTM D1056	450
Tensile Strength	kPa	ASTM D412	610
Elongation	%	ASTM D412	150
Tear Strength	kN/m	ASTM D624	1.5
Compression Set	%	ASTM D1056, 100°C/22hrs/50%	<10
Water Absorption	%	ASTM D1056	<10
Flammability			
Flame Resistance	-	UL 94	V-0 & HF-1
Fire Behavior	-	EN 45545-2	HL2
Thermal			
Temperature Range	°C	Internal	-55 to +200

Notes:

*Different shape density will be different.

**Typical value is based on historical data. Please note the frequency of testing varies.

Standard Size Tolerances

Nominal Size (mm)	Tolerance (mm)
$1 \leq T \leq 3$	± 0.3
$3 < T \leq 5$	± 0.4
$5 < T \leq 7$	± 0.6
$7 < T \leq 12$	± 0.8
$12 < T \leq 15$	± 1.0
$15 < T$	$\pm 0.1 * T$

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Usable Life & Storage 10 years after the date of manufacture when stored in original packaging at temperatures up to 35°C and 70% relative humidity(see applicable data sheets for pressure-sensitive adhesive option).

Packaging Information According to different cross-sectional shapes of linear silicone sponge, different packaging forms will be designed.

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