

FUTUREWAY®RTM-260

Extruded Medium Hardness Silicone Sponge

FUTUREWAY®RTM-260 is an extruded silicone sponge product. It has high mechanical properties, very low water absorption, excellent high elasticity, and has flame retardant and fireproof properties. It is suitable for indoor and outdoor applications. The better choice is for structural sealing, shock absorption and protection.



Features & Benefits

- Meet the highest fire protection requirements of rail transit such as European standard EN 45545-2, British BS 6853, and German DIN 5510
- Closed-cell structure, extremely low water absorption rate, meets higher IP protection level
- Surface skinning makes the silicone rubber foam 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

- Gaskets
- Vibration dampening
- Seals
- Acoustic dampening
- High temperature protection

Services

- Available with a pressure sensitive-adhesive on one or two sides
- Provide cutting, splicing and other processing services

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.

Statement: The information contained in this data sheet is intended to assist you in the design of Futureway materials. It is not intended to and does not create any explicit or implicit guaranties, including any guaranty of marketability of the goods and for special purposes. It is also not guaranteed that users can achieve the results shown in the technical specifications of this material in specific applications. They will change with different application situations, such as equipment type, environmental conditions, process conditions, etc. Users should determine the suitability of Futureway materials for each application.

Typical Properties

Property	Unit	Test Method	Typical Value
Physical			
Section Shape	-	-	Rectangle, square, D-shaped, O-shaped, etc.
Standard Colors	-	Visual	Orange, Black
Hardness	Shore AO	ISO 7619-1	30
Density	kg/m ³	ASTM D1056	450
Tensile Strength	kPa	ASTM D412	750
Elongation	%	ASTM D412	220
Tear Strength	kN/m	ASTM D624	2.0
Compression Set	%	ASTM D1056, 100°C/22hrs/50%	<10
Water Absorption	%	ASTM D1056	<10
Flammability			
Flame Resistance	-	UL 94	V-0
Fire Behavior	-	EN 45545-2	R22 HL3&R23 HL3
Thermal			
Temperature Range	°C	Internal	-55 to +200

Notes:

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

**All metric conversions are approximate.

***Typical properties are based on 6.00mmT sample.

****For specification values, please contact Futureway Corporation.

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 The packaging specifications of different cross-sectional shapes are different. Please contact Futureway for specific specifications.

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