



**JÄGER**

Gummi und Kunststoff

DATA SHEET

# FUTUREWAY<sup>®</sup> SRL-1140F

# FUTUREWAY® SRL-1140F

## MEDIUM FIRM SILICONE FOAM

FUTUREWAY® SRL-1140F is a medium firm silicone foam. It has the characteristics of high elasticity, compression resistance, creep resistance, flame resistance.

It is suitable for sealing, shock absorption, cushioning, thermal insulation and other applications. Furthermore these foams meet the requirements for industries like the electrical mobility, energy storage, photovoltaic, consumer electronics.

In addition, FUTUREWAY® SRL-1140F has an excellent aging and media resistance against environmental influences and chemical media.



### FEATURES & BENEFITS

- An excellent elastic retention ability reduce the replacement costs of cushion and shock absorption gasket at long-term as well as repeated compression
- UV resistance, ozone resistance, extreme temperature resistance and flame resistance make materials stable in complex environments
- Compliant to GB 38031-2020 electric vehicles traction battery safety requirements
- Compliant to UL 94 for industrial fire prevention

### TYPICAL APPLICATIONS

- Dustproof, waterproof and moisture proof sealing against environmental influences, e. g. for electronic products and components
- Vibration isolation, cushioning, filling, e. g. for electric vehicle interiors, battery pack interior and energy storage
- As insulation material or in areas where high flame resistance is required

### ADHESIVE

- Available with a pressure sensitive-adhesive on one or two sides

#### Please note:

- 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 does not create any explicit or implicit guarantees, 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.

The information provided in this data sheet has been supplied by FUTUREWAY®.

## MEDIUM FIRM SILICONE FOAM

Property	Unit	Test Method	Typical Value	Specification
<b>Physical</b>				
Color	-	-	Gray, Black	-
Thickness	mm	-	See "Standard Thickness Tolerances" table	<b>0.79≤T≤3</b> <b>3&lt;T≤7</b> <b>7&lt;T≤12.7</b>
Density	kg/m <sup>3</sup>	ASTM D1056	350	<b>360-440</b> <b>310-390</b> <b>290-370</b>
Tensile Strength	kPa	ASTM D412	450	<b>≥300</b> <b>≥300</b> <b>≥250</b>
Elongation	%	ASTM D412	130	<b>≥80</b> <b>≥80</b> <b>≥50</b>
Compression Force Deflection	kPa	ASTM D1056	70	<b>65-100</b> <b>55-90</b> <b>45-85</b>
Compression Set	%	ASTM D1056 100 °C/22 hrs/50 %	0.1	<b>&lt;5</b>
Water Absorption	%	Internal	0.7	<5
<b>Flammability</b>				
Flame Resistance	-	UL94 (File E519126)	Meets	<b>V-0</b>
<b>Electrical &amp; Thermal</b>				
Dielectric Strength	kV/mm	ASTM D149	6.8	-
Thermal Conductivity	W/(m·K)	ASTM C518	0.07	-
Temperature Range	°C	SAE J2236	-55 to +200	-

### Notes:

- Specification values in bold are tested on a batch basis.
- Typical value is based on historical data. Please note the frequency of testing varies.
- Specification applied to physical properties, which are based on Futureway internal benchmark.
- Additional industry specifications are also available. All other properties are based on industry standard guidelines.

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## MEDIUM FIRM SILICONE FOAM

Standard Thickness Tolerances	
Nominal Thickness (mm)	Tolerance (mm)
0.79	+0.3/-0.1
1.0, 1.5, 1.59, 2.0, 2.39 3.0, 3.18, 3.5, 4.78, 5.0	±0.3
6.0, 6.35, 7.0	±0.5
8.0, 9.53, 10.0	±0.7
12.70	±0.9

### PACKAGING INFORMATION

- Master roll size: 500 mm or 914 mm width
- Length varies with thickness
- Special thicknesses and roll sizes available on request

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