

Technical Data Sheet

FUTUREWAY® FL-135

Flame-retardant soft silicone rubber

FUTUREWAY® FL-135 flame-retardant soft silicone rubber is a high-performance silicone rubber suitable for special working conditions such as cushioning, filling, supporting and other applications. It has low rebound force, high shear strength, excellent environmental aging resistance, excellent compression performance, high elasticity retention ability and outstanding flame-retardant properties. This product is an excellent material choice for various industrial applications.



Features & Benefits

- Long-term mechanical performance retention ability after compression, especially in extreme cold and hot environments
- Ultra-low mechanical attenuation characteristics after repeated compression
- UV resistance, ozone resistance, and extreme temperature resistance make materials more stable in complex environments
- Meets UL 94 V-0 rated for flame resistance

Typical Applications

- Prismatic cell cushioning pads
- Sealing, shock absorption, filling gaps, supporting, etc.

Services

- Available with a pressure sensitive-adhesive on one or two sides
- Available with slitting and splicing 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 date 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

Black, Gray
0.65~8
0.83
35
10% 210
20% 350
30% 510
1.1
110
0.96
1.01
/50% 22
V-0 (≥ 1 mm T)
0.172
7×10 ⁶
0.02
м h

Notes:

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

^{**}Additional industry specifications are also available. All other properties are based on industry standard guidelines.



- 3 -

Standard Thickness Tolerances

Slit Material and Tape (PSA) Width Tolerances

Nominal Thickness (mm)	Tolerance (mm)	Nominal Width (mm)	Tolerance (mm)
0.65, 1.0, 1.3	± 0.15	$0 < W \le 76$	± 1.60
1.5, 2.0	± 0.2	$76 < W \le 203$	± 2.39
2.5, 3.0	± 0.3	$203 < W \le 305$	± 3.18
3.5, 4.0	± 0.4	$305 < W \le 457$	± 4.78
4.5, 5.0, 5.5	± 0.5	$457 < W \le 660$	± 5.56
6.0, 7.0, 7.5, 8.0	± 0.6	$660 < W \le 914$	+ 25.4, - 0

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

Master roll size: 500 mm or 914mm width. Length varies with thickness. Special thickness and roll sizes also available.

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