Technical Data Sheet

FUTUREWAY® CC-70T

Cell Formation Extra Firm Silicone Foam

FUTUREWAY® CC-70T is a material composed of silicone foam and special fabrics, which has excellent corrosion resistance, abrasion resistance, and adsorption resistance. Its unique structure helps to maintain consistency in cutting component dimensions. It is a better material choice for special applications in industries such as electric vehicles, general industry, and consumer electronics.

Features & Benefits

- Ultra-low surface energy, which can reduce the assembly friction, facilitate structural assembly and avoids cell adsorption problems caused by long-term compression
- Good corrosion resistance, capable of long-term contact with chemical media such as electrolytes, chemical reagent, mineral oils, etc.
- Excellent anti-aging properties, which can be recycled for many times
- Excellent compressibility and can absorb the formation quality of the cell

Typical Applications

- Cell formation transport tray cushions, support pads, buffer pads, etc.

Services

- Available with a pressure sensitive-adhesive on one 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.

Typical Properties

Property	Unit	Test Method		Typical Value
Physical				
Color	-	-		Gray
Thickness	mm	-		0.85-3.0
Density	kg/m^3	ASTM D1056		680
Compression Force Deflection	kPa	ASTM D1056	10%	198
			25%	450
			35%	680
Tensile Strength	MPa	ASTM D412		4
Elongation	%	ASTM D412		2
Compression Set	%	ASTM D1056 100℃ / 22 hrs / 50%		0.5
Water Absorption	%	ASTM D570		2.5
Abrasion Resistance (Mass Loss Rate)	%	ISO 5470-1		0.04
Resistance to Electrolyte Corrosion	-	Internal		No change in appearance
Flammability				
Flame Resistance	-	UL 94		V-0
Electrical & Thermal				
Leakage Current	mA	ASTM D149		0.01
Volume Resistivity	Ohm·cm	ASTM D257		2.9×10^{13}
Thermal Conductivity	W/(m·K)	ASTM C518		0.1
Temperature Range	˚C	SAE J2236		-55 to +200

Notes:

*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.

Standard Thickness Tolerances

Nominal Thickness(mm)	Tolerance(mm)
0.85	± 0.05
1.0	± 0.08
1.2	+ 0.10 / - 0.05
1.4, 1.95, 2.4, 2.9	± 0.10

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: 914 mm width. Length varies with thickness.

Special thickness and roll sizes also available.