



Elastomeric Material Solutions

www.cpisefa.com

Typical Product Properties

CPI-200 – ULTRA SOFT SILICONE

CPI-200 Ultra Soft is a highly compressible silicone foam. The combination of low weight and softness makes this Flame retardant foam ideal for transportation, industrial, and electronics applications where low closure force and dust sealing are critical. CPI Silicones are available in a variety of thickness options and is manufactured in roll form to allow fabricators to easily convert the material to the proper dimensions.

Features and Benefits:

- Ultra low softness allows designers to use less force to seal enclosures and still protect their device from the environment.
- High compressibility allows material to conform to variable width gaps, thereby allowing more design flexibility.
- Excellent memory and low stress relaxation reduces maintenance costs associated with gasket failures due to compression set and softening.
- Resistance to ultraviolet light, ozone, extreme temperatures, and enables consistent performance in all environments.

Applications:

- Vibration isolation in electronic components and transportation vehicles.
- Low closure force gaskets within portable electronics such as laptops and LCD screens within aircraft and rail interiors.
- Fire retardant thermal insulation.

Installation:

- Available with a pressure-sensitive adhesive on one or two sides to allow easy application to a variety of surfaces.

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein.

CPI - 200 SILICONE FOAM

Property	Test Method	Typical Value
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PHYSICAL

Color		Black
Thickness, (mm inches)Tolerance)		3.18 - 12.70 (0.125 - 0.500) See Reverse
Standard Width, (inches (mm))		914 (36.0)
Density, kg/m3 (lb./ft3)	ASTM D 1056	180 (11.5)
Compression Force Deflection, kPa (psi)	Force measured@ 25% Deflection ASTM D 1056	13.8 (2)
Compression Set, Typical	ASTM D 1056 Test D @ 158 °F (70°C)	1%
	ASTM D 1056 Test D @ 212 °F (100°C)	5%
Tensile Strength, min.kPa (psi)	ASTM D 412	172 (25)
Elongation, % min.	ASTM D 412	80

FLAMMABILITY & OUT GASSING

Flame Resistance	UL 94	Listed V-0 and HF-1
Flame Spread Index (L _s)		
Smoke Density (D _s)		
Oxygen content %	EN 45545 R22	HL3 PASS
Toxic Gas Emissions Rating		

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Standard Thickness Tolerance

	Standard Thicknes		Tolerance (Inches)
	Inches	mm	
1/8	0.125	3.18	± 0.025
3/16	0.188	4.76	± 0.030
1/4	0.250	6.35	± 0.040
3/8	0.375	9.53	± 0.060
1/2	0.500	12.70	± 0.060

Width Tolerance (Cellular)

Nominal Width (Inches)	Tolerance (w/o PSA)	Tolerance (with PSA)
0 < T < 3	± 0.063	± 0.031
3 < T < 8	± 0.094	± 0.031
8 < T < 12	± 0.125	± 0.031
12 < T < 18	± 0.188	± 0.031
18 < T < 26	± 0.219	± 0.063
26 < T < 36	± 0.250	± 0.063

Notes:

1. All metric conversions are approximate.
2. Additional technical information is available.
3. Typical values area representation of an average value for the population of the property.

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