



## High Performance Foams Division

www.cpisefa.com

Typical Product Properties

# CPI-210 – EXTRA SOFT CELLULAR SILICONE

Compressibility, softness, and durability allow CPI - 210 to adapt to various environments, making it an ideal choice for sealing outdoor enclosures, protecting electronics from shock and heat, and providing cushioning or vibration isolation for various applications.

### Features and Benefits:

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

### Applications:

- Environmental seals to protect against penetration of dust, moisture, air or light within outdoor enclosures such as lighting fixtures, HVAC units, and electronic cabinets.
- Vibration isolation in electronic components and transportation vehicles.
- 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 - 210 SILICONE FOAM

Property	Test Method	Typical Value
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#### PHYSICAL

Color		Gray* & White
Thickness, inches (mm) Tolerance		0.063 –1.000 (1.60 – 25.40) See Reverse
Standard Width, (inches (mm))		36 (914)
Density, lb./ft <sup>3</sup> (kg/m <sup>3</sup> )	ASTM D 1056	13 (208)
Compression Force Deflection, psi (kPa)	Force measured@ 25% Deflection ASTM D 1056	2.5 (17)
Compression Set , % max.	ASTM D 1056 Test D @ 158 °F (70°C), 22 hrs.	< 1
	ASTM D 1056 Test D @ 212 °F (100°C), 22 hrs.	< 5
Tensile Strength, psi (kPa)	ASTM D 412	35 (241)
Elongation, %	ASTM D 412	90

#### FLAMMABILITY & OUT GASSING

Flame Resistance	UL 94	Listed V-0 and HF-1
Flame Spread Index (L <sub>s</sub> )		
Smoke Density (D <sub>s</sub> )		
Oxygen content%	EN 45545 R22	HL2 PASS
Toxic Gas Emissions Rating		

\*Gray color is standard in 0.063 (1.60mm), 0.250 (6.35mm) and 0.500 (12.70mm ) thicknesses.

# CPI-210 – EXTRA SOFT CELLULAR SILICONE



Property	Test Method	Value
<b>Electrical &amp; Thermal Properties</b>		
Dielectric Constant	ASTM D 150	1.34
Dielectric Strength	ASTM D 149, Volts/mil	89
<b>Temperature Resistance</b>		
Low Temperature Flex at -67 °F (-55°C)	ASTM D 1056	Pass
Recommended Use Temperature, °F (°C)	SAE J-2236	-67 to 392 (-55° to 200°)
Recommended Intermittent High Temperature Use, °F (°C)	Internal	482 (250)

## Standard Thickness Tolerance

	Standard Thickness		Tolerance (Inches)
	Inches	mm	
1/16	0.063	1.60	± 0.016
3/32	0.094	2.39	± 0.020
1/8	0.125	3.18	± 0.025
3/16	0.188	4.78	± 0.030
1/4	0.250	6.35	± 0.040
3/8	0.375	9.53	± 0.060
1/2	0.500	12.70	± 0.050
3/4	0.750	19.05	± 0.090
1	1.000	25.40	± 0.090

## 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 are a representation of an average value for the population of the property.

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