



High Performance Foams Division

www.cpisefa.com

Typical Product Properties

CPI-240 – MEDIUM CELLULAR SILICONE

CPI-240 is highly versatile, medium firmness silicone that offers the lightness of foam, with the enhanced sealing capabilities of a traditional sponge rubber. It is used to seal and protect various outdoor communication, electronics, and lighting enclosures, while providing protection against wind driven rain and fire. The material is also used to reduce shocker isolate vibration. CPI Silicones are available in various thicknesses and manufactured in roll form to allow fabricators to easily convert the material to the proper dimensions.

Features and Benefits:

- 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 flame enables consistent performance in all environments.
- Compact cell structure and unique formulation provides enhanced sealing performance to resist penetration of fine particles and wind-driven rain.

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 isolators in electronic components and transportation vehicles.
- Shock absorbing cushions and gaskets.

Installation:

- Available with a pressure-sensitive adhesive on one or two sides to allow easy application to 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 - 240 SILICONE FOAM

Property	Test Method	Typical Value
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PHYSICAL

Color		Black, Gray & Red*
Thickness, (mm Tolerance)		(2.00-12.70) See Reverse
Standard Width, (inches (mm))		36 (914)
Density, lb./ft ³ (kg/m ³)	ASTM D 1056	23 (360)
Compression Force Deflection, psi (kPa)	Force measured@ 25% Deflection ASTM D 1056	10.5 (72.0)
Compression Set, % max.	ASTM D 1056 Test D @ 158 °F (70°C)	< 1
	ASTM D 1056 Test D @ 212 °F (100°C)	< 5
Tensile Strength, psi (kPa)	ASTM D 412	45 (310)
Elongation, %	ASTM D 412	80

FLAMMABILITY & OUT GASSING

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

* Red color not available as standard for 1/32" (0.80mm)

CPI-240 – MEDIUM CELLULAR SILICONE



Property	Test Method	Typical Value
Environmental Properties		
Water Absorption	Internal: 24 hrs @ room temp	1.40 %
Electrical & Thermal Properties		
Dielectric Constant	ASTM D 150	1.42
Dielectric Strength	ASTM D 149, Volts/mil	91
Temperature Resistance		
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	0.062	1.57	± 0.020
3/32	0.094	2.39	± 0.020
1/8	0.125	3.18	± 0.025
3/16	0.188	4.76	± 0.025
1/4	0.250	6.35	± 0.030
3/8	0.375	9.53	± 0.045
1/2	0.500	12.70	± 0.050

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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