

## Medium Cellular Silicone

### Description:

This is a highly versatile, medium firmness silicone which allows it 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.

### Typical Physical Properties

Specification	Test Method	Typical Results
Density	ASTM D1056	22 lbs/ft <sup>3</sup>
Compression Force Deflection @ 25% Deflection	ASTM D1056	9.0 psi
Compression Set @ 158°F @ 212°F	ASTM D1056, Test D	< 1% max < 5% max
Tensile Strength	ASTM D412	45 psi
Elongation	ASTM D412	80%
Flammability	UL94	Listed V-0 and HF-1
Flame Spread Index	ASTM E162	< 25 L <sub>s</sub>
Smoke Density @ 4.0 minutes @ 1.5 minutes	ASTM E662	< 50 D <sub>s</sub> < 20 D <sub>s</sub>
Toxic Gas Emissions Rating	SMP-800C	Pass
Water Absorption	24 hrs @ room temp.	1.40%
Dielectric Constant	ASTM D150	1.42
Dielectric Strength	ASTM D149	91 volts/mil
Dry Arc Resistance	ASTM D495	92 seconds
Volume Resistivity	ASTM D257	10 <sup>14</sup> ohm-cm
Thermal Conductivity	ASTM C518	0.63 BTU in/hr/ft <sup>2</sup> /°F
Low Temperature Flex @ -67°F	ASTM D1056	Pass
Temperature Range	SAE J-2236	-67° to 392°F
Intermittent High Temperature Use		482°F



**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.
- Shock absorbing cushions and gaskets

**Features and Benefits:**

- Excellent memory and low stress relaxation reduces maintenance costs associated with gasket failures due to compression set and softening.
- Compact cell structure provides enhanced sealing performance to resist penetration of fine particles and wind-driven rain.
- Resistance to ultraviolet light, ozone, extreme, temperatures, and flame enables consistent performance in all environments.

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