



2537 Wharton Glen Avenue, Mississauga, Ontario, L4X 2A8  
Phone: (905) 277-9925 | Fax: (905) 277-9934 | [www.combifab.com](http://www.combifab.com)

## TECHNICAL DATA SHEET

### **PS729 SILICONE SPONGE**

PS729 is a highly versatile, medium firmness silicone that offers the lightness of a 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 shock or isolate vibration.

#### 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 side to allow easy application.



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PROPERTY	TEST METHOD	TYPICAL VALUE
<i>PHYSICAL</i>		
Color		Black, Grey
Standard Width, inches(mm)		36 (914)
Density.lb./ft (kg/m <sup>3</sup> )	ASTM D 1056	22(352)
Compression Force	Force measured@25%	
Deflection,psi (Kpa)	Deflection	9.0 (62.0)
	ASTM D 1056	
	ASTM D 1056	
	Test D @ 158°F (70°C)	<1
Compression Set % max.	ASTM D 1056	
	Test D @ 212°F(100°C)	<5
Tensile Strength, psi (Kpa)	ASTM D 412	45(310)
Elongation %	ASTM D 412	80
<i>FLAMMABILITY &amp; OUTGASSING</i>		
Flame Resistance	UL94	Listed V-0 and HF-1
Flame Spread Index (L)	ASTM E 162	<25
	ASTM E 662	
Smoke Density (D)	Tested @ 4.0 minutes	<50
	Tested @ 1.5 minutes	<20
Toxic Gas Emissions	SMP-800C	Pass
<i>ENVIRONMENTAL PROPERTIES</i>		
Water Absorption	Internal: 24hrs@room temp.	1.40%
UV Resistance	SAE J-1960	No Degradation
Ozone Effect Rating	ASTM D 1171	0(No Cracks)
Corrosion Resistance	AMS-3568	Pass
Meets requirements of FDA CFR 177.2600	For Food Contact	Gray & Black
<i>ELECTRICAL &amp; THERMAL PROPERTIES</i>		
Dielectric Constant	ASTM D 150	1.42
Dielectric Strength	ASTM D 149, Volts/mil	91
Dry Arc Resistance	ASTM D 495, seconds	92



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Volume Resistivity, Ohm-cm	ASTM D 257	10
Thermal Conductivity	ASTM C 518	0.63(0.09)
BTU in/hr/ft <sup>2</sup> /°F (w/m <sup>2</sup> K)		
<i>TEMPERATURE RESISTANCE</i>		
Low Temperature Flex at -67°F (-55°C)	ASTM D1056	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)

This information is as a general guide for selecting materials. It is the customer's responsibility to obtain and test samples when determining suitability of material for a particular application.