

## TECHNICAL DATA

- Combine foam lightness with seal of sponge rubber
- Resist UV, ozone, extreme temperatures, corrosion, and flame
- Prevent penetration of fine particles and wind-driven rain
- Excellent memory and low stress relaxation
- Medium firmness silicone available in red, gray and black

### Product Description

Pres-On S600 and S800 Medium Density Silicone Foam Tapes are UL recognized for their flame retardancy and gasketing properties. NOTE: Other densities available. (Minimum quantities may apply)

**S600:** Pressure-sensitive acrylic adhesive (Acrylic PSA) **S800:** Pressure-sensitive silicone adhesive (Silicone PSA)

### Applications

S600 and S800 are ideal for sealing and protecting outdoor enclosures such as HID lighting fixtures, electronics cabinets and HVAC units from environmental damage. These tapes are also recommended for isolating vibration in electronic components and vehicles.

STANDARD ROLL SIZE	SERIAL NUMBER	THICKNESS	LENGTH
All rolls available in widths from 1/8" to 54"	S603 (acrylic adhesive)	1/32"	60'
	S606 (acrylic adhesive)	1/16"	60'
	S609 (acrylic adhesive)	3/32"	60'
	S612 (acrylic adhesive)	1/8"	60'
	S618 (acrylic adhesive)	3/16"	40'
	S625 (acrylic adhesive)	1/4"	40'
	S637 (acrylic adhesive)	3/8"	20'
	S650 (acrylic adhesive)	1/2"	20'
	S803 (silicone adhesive)	1/32"	60'
	S806 (silicone adhesive)	1/16"	60'
	S809 (silicone adhesive)	3/32"	60'
	S812 (silicone adhesive)	1/8"	60'
	S818 (silicone adhesive)	3/16"	40'
	S825 (silicone adhesive)	1/4"	40'
	S837 (silicone adhesive)	3/8"	20'
	S850 (silicone adhesive)	1/2"	20'

PERFORMANCE	TEST	TYPICAL PERFORMANCE	TEST METHOD
<b>ACRYLIC ADHESIVE (S600)</b>			
	Construction	1.75 mil Acrylic	
	Release Liner	70-80# densified kraft	
	Peel Adhesive-20 milnute dwell	75 oz/inch	PSTC-1
	Static Sheer @ 72°F 1 x 1 x 5000g	+24 hours	PSTC-7
	Water and Humidity Resistance	Excellent	Pres-On PTM-3
	Service Temperature	-31°F to 149°C (-25° to 300°F)	
	Shelf Life	1 year stored at room temperature	
<b>SILICONE ADHESIVE (S800)</b>			
	Construction	1.8 mil silicone	
	Release Liner	2 mil polyester film	
	Adhesion to Steel @ 72°F (20 min dwell)	25 oz/inch	PSTC-1
	Static Sheer @ 72°F 1 x 1 x 500g	+48 hours	PSTC-7
	Water and Humidity Resistance	Excellent	Pres-on PTM-3
	Service Temperature	-50°C to 230°C (-58°F to 446°F)	Pres-on PTM-2
	Shelf Life	1 year stored at room temperature	

PROPERTY	TEST METHOD	UNIT OF MEASURE	RESULT
<b>PHYSICAL PROPERTIES</b>			
Density	ASTM D 1056	lb/ft	22
Tensile Strength	ASTM D 412	psi	45 (310)
Elongation	ASTM D 412	%	80
Compression Set	ASTM D 1056 Test D @ 158°F (70°C) Test D @ 212°F (100°C)	%	<1 <5
Compression Deflection @25% deflection	ASTM D 1056	psi	9.0 (62.0)
<b>FLAMMABILITY &amp; OUTGASSING PROPERTIES</b>			
Flame Resistance	UL 94		V-0 and HF-1
Flame Spread Index	ASTM E 162	L <sub>s</sub>	<25
Smoke Density	ASTM E 662 Tested @ 4.0 minutes Tested @ 1.5 minutes	L <sub>s</sub>	<50 <20
Toxic Gas Emissions	SMP-800C		Pass
<b>ENVIRONMENTAL PROPERTIES</b>			
Water Absorption	24 hours @ room temp	%	1.4
UV Resistance	SAE J-1960		No degradation
Ozone Resistance	ASTM D 1171		0 (no cracks)
Corrosion Resistance	AMS-3568		Pass
<b>ELECTRICAL &amp; THERMAL PROPERTIES</b>			
Dielectric Constant	ASTM D 150		1.42
Dielectric Strength	ASTM D 149	Volts/mil	91
Dry Arc Resistance	ASTM D 495	seconds	92
Volume Resistance	ASTM D 257		10 <sup>14</sup>
Thermal Conductivity	ASTM C 518	BTU in/hr/ft <sup>2</sup> /°F (w/m °K)	0.63 (0.09)
<b>TEMPERATURE RESISTANCE</b>			
Flex @ -67°F (-55°C)	ASTM D 1056		Pass
Recommended Temp	SA J-2236	-67°F to 392°F (-55°C to 200°C)	
Recommended High Temp		482°F (250°C)	

## Application Notes

Ensure bonding surfaces are well unified, clean, dry and free of dirt and oils. Apply firm and even pressure to improve adhesive-to-surface contact. Allow proper temperature and time to enhance bond strength as adhesive flows onto the surface.

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