

Silicone Foam & Sponge

Extreme Performance

Cellular Elastomers

Description:		DSP0018	DSP1248	DSP1135S	DSP1135M	DSP1135F	DSP1135XF	DSP1135LCSM	DSP1175MFR	DSP1165-1145
		Soft Density Open Cell Silicone Foam	Medium Density Closed Cell Silicone Foam	Soft Density Closed Cell Silicone Sponge	Medium Density Closed Cell Silicone Sponge	Firm Density Closed Cell Silicone Sponge	Extra-Firm Density Closed Cell Silicone Sponge	Low Compression Set Medium Density Closed Cell Silicone Sponge	Flame Retardant Medium Density Closed Cell Silicone Sponge	Fiberglass Reinforced Closed Cell Silicone Sponge
Basic Physical Properties	Cell Structure	Open	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
	Surface Skin	Smooth	Smooth	Fine Fabric	Fine Fabric	Fine Fabric	Fine Fabric	Fine Fabric	Fine Fabric	Fine Fabric
	Density lbs/ft ³	12	20	31	33	40	45	33	33	33
	Compression Deflection	2-5	6-14	5-9	6-14	12-20	16-26	6-14	6-14	6-14
	Compression Set	5%	5%	25%	25%	25%	25%	10%	25%	25%
	Tensile Strength	Fair	Fair	Good	Good	Very Good	Excellent	Excellent	Excellent	Excellent
	Elongation	Fair	Fair	Good	Good	Very Good	Excellent	Excellent	Excellent	Poor
Water Absorption	<4%	<2%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	
Thermal, Electrical and Environment	Thermal Conductivity BTU in/hr/ft ² /°F	0.39	0.63	0.75	0.75	0.8	0.85	0.85	0.85	0.85
	Temperature Range F	-67 to +392	-67 to +392	-103 to +450	-103 to +450	-103 to +450	-103 to +450	-103 to +450	-103 to +450	-103 to +450
	UV / Ozone Resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
	Dielectric Strength (approx)	90 volts/mil	90 volts/mil	150 volts/mil	150 volts/mil	150 volts/mil	150 volts/mil	150 volts/mil	150 volts/mil	150 volts/mil
Flame and Outgassing	Flame Resistance	*UL94 V1,V0	*UL94 V1,V0	-	-	-	-	-	**UL94 HB	-
	Vertical Flame FAR 25.853	Pass	Pass	-	-	-	-	-	Pass	-
	Toxic Gas Emission Bombardier SMP 800C	Pass	Pass	-	-	-	-	-	-	-
Colors and Dimensions	Colors (Most Common Listed, Many Others Available)	<i>White, Grey</i>	<i>Grey</i>	<i>Red, Grey, Black, White</i>	<i>Red, Grey, Black, White</i>	<i>Red, Grey, Black, White</i>	<i>Red, Grey, Black, White</i>	<i>Red, Brown</i>	<i>Dark Blue</i>	<i>Grey</i>
	Thickness Range ****	<i>1/16" - 1"</i>	<i>1/8" - 3/8"</i>	<i>1/32" - 2"</i>	<i>1/32" - 2"</i>	<i>1/32" - 2"</i>	<i>1/32" - 2"</i>	<i>1/32" - 2"</i>	<i>1/32" - 2"</i>	<i>1/32" - 2"</i>
	Continuous Rolls	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>	<i>Yes</i>
	Standard Width	<i>36"</i>	<i>36"</i>	<i>36"</i>	<i>36"</i>	<i>36"</i>	<i>36"</i>	<i>36"</i>	<i>36"</i>	<i>36"</i>
	Available Widths	<i>1/4"-54"</i>	<i>1/4"-54"</i>	<i>1/4"-54"</i>	<i>1/4"-54"</i>	<i>1/4"-54"</i>	<i>1/4"-54"</i>	<i>1/4"-54"</i>	<i>1/4"-54"</i>	<i>1/4"-54"</i>
Specifications	Specifications (Most Common Listed, Many Avail.)	BMS 1-68	AMS3195	ASTM D1056	AMS3195 MIL-R-46089	AMS3196 MIL-R-46089	ASTM D1056	NO	**UL94 HB ***DMS1980	NO
	FDA Approved 21CFR177.2600	NO	NO	NO	NO	NO	NO	NO	NO	NO

* Limited to specific thickness & colors **Capable of meeting but not listed with Underwriters Laboratories ***Capable of Meeting ****Over 1/2" material is laminated to achieve thickness