



Silicone Sponge & Foam

Extreme Performance - Cellular Elastomers

	DSP0018	DSP1248	DSP1135S	DSP1135M	DSP1135F	DSP1135XF	DSP1135LCSM	DSP1175MFR	DSP1165-1145
Description:	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
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 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 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 (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	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Standard Width	36"	36"	36"	36"	36"	36"	36"	36"	36"
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 (Most Common Listed, Many Avail.)	BMS 1-68	AMS3195	ASTM D1056	AMS3195 MIL-R-46089	AMS3196 MIL-R-46089	ASTM D1056	**UL94 HB ***DMS1980	-	-
FDA Approved 21CFR177.2600	Pass	Pass	-	-	-	-	-	-	-

* 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

Tests results listed above are representations and descriptions to the best of our knowledge. The above values are typical properties and are provided for information purposes only. They should not be used to set specification requirements. It is up to the end user to determine whether the material or materials are suitable for the intended application.