

SILICONE CLOSED CELL SPONGE



DESCRIPTION:

Silicone sponge is an excellent material for gasketing applications that require a soft compressible material. It is resistant to extreme temperatures and offers good compression set. It is Available in Soft, Medium, Firm, and X- Firm Densities. Medium Density is the most popular. It is available in many colors. Generally the surface has a fine fabric finish on both sides and is available in continuous rolls up to 1/2" thick and sheets up to 2" thick.

FEATURES:

- Extreme High & Low Temperatures
- High Compressibility
- Low Compression Set
- UV /Ozone Resistant
- Excellent Gasketing Material

SPECIFICATIONS:

- AMS-3195
- Mil-R-46089
- ASTM-D-1056
- Mil-R-6130
- Mil-Std 670 TE12

Properties	Specification AMS3195	Typical Values	Test Method
Density, lbs/cubic in. Under 1/4" thick	.025 Max	.020	ASTM D1056
Density, lbs/cubic in. Over 1/4" thick	.020 Max	.018	ASTM D 1056
Compression Deflection, PSI	6-14	11	ASTM D 575
Compression Set, 22 hrs @ 212 °F	60 % Max	29	ASTM D 395
Brittle Point °F	-67	-103	ASTM D 746
Temperature Range °F	N/A	-103 to +450	ASTM D 573
Water Absorption	5% Max	Pass	ASTM D 471
Tensile Strength, PSI	N/A	100	ASTM D 412
Elongation, %	N/A	200	ASTM D 412
Thermal Conductivity BTU in./hr. ft ² °F	N/A	.6	ASTM F 433



NEOPRENE/EPDM/SBR BLEND CLOSED CELL FOAM

SC42B Closed Cell Sheets 42" x 72" (21 Sq. Ft.)
 Length and Width: +/- 3%
 This material is a neoprene/EPDM/SBR blend.

AVAILABLE IN: STRIPPING and with PSA

Specifications:

ASTM D 1056-67 SCE-42

ASTM D 1056-00 2A2

Mil-R-6130C II-A Soft/Medium

Mil-STD-670B SCE7

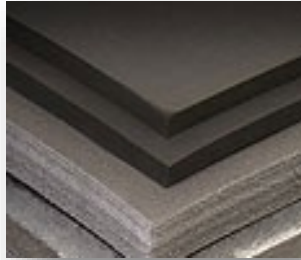
Flammability Specifications:

UL-94-HF-1 Listed

UL-94-HBF Pass

MIL-R-6130C Pass

FMVSS-302 Pass



Physical Property	Test Method	Unit of Measure	Result
Compression Deflection @25%	ASTM D 1056	psi/kPa	5-9 / 34-62
Density	ASTM D 3575	pcf / g/cm ³	4-8 / .064-.128
Water Absorption Max. Wgt. Change	ASTM D 1056	%	5
Temperature Range	N/A	°F	-40 to +200
High Intermittent	N/A	°F	+250
Tensile Strength	ASTM D 412 (Die A)	psi/kPa	100 / 690
Elongation Minimum	ASTM D 412 (Die A)	%	150
Accel. Aging(7 days @ 158°F)	ASTM D 1056	N/A	--
Flexibility (No Cracking)	ASTM D 1056	180° Bend	Pass
Appearance Change	ASTM D 1056	N/A	None
Change in Compression Deflection	ASTM D 1056	%	+/- 30
Thermal Conductivity	ASTM C 177-85	K Factor	.30
Color	N/A	N/A	Black

Resistance To:

Acid: Excellent

Alkali: Excellent

Gasoline and Oil: Fair

Aromatic Hydrocarbons: Fair

Ozone: Excellent

Ketones: Fair

Chlorinated Solvents: Poor

Oxidation: Excellent

Thickness tolerances range from +/- .015" for .063" to +/- .175" for 2".

SPECIFICATIONS						
Polymer	Neoprene/EPDM/SBR Blend				Ethylene Vinyl Acetate	
ASTM-D-1056-78	RE-41	RE-42	RE-43	RE-45	RE 41/42	RE 42/43
Mil-R-6130C	II-A	II-A	II-A	II-A	-----	-----
Type - Grade - Condition	Soft	Soft-Med.	Medium	Firm	Soft-Med.	Medium
FLAMMABILITY SPECIFICATIONS						
Mil-R-6130C	Pass	Pass	Pass	Pass	-----	-----
FMVSS-302	Pass	Pass	Pass	Pass	Pass	Pass
PHYSICAL PROPERTIES						
25% Compression Deflection	2-5	5-9	9-13	17-24	3-7	6-10
Density Approximate	7+/-2	7+/-2	10+/-2	20+/-4	2+/-0.5	4 +/- 0.7
Water Absorption Max. Weight %	5	5	5	5	5	5
Temperature Range (F)	-70/+225	-70/+225	-70/+225	-70/+225	-70/+160	-70/+160
Temperature High Intermittent (F)	250	250	250	250	180	180
Ozone Resistance	Good	Good	Good	Good	Excellent	Excellent
Tensile Strength	80	80	100	100	50	80
Fuel B Max. % weight Change	250	250	150	150	250	250
Elongation Typical Properties %	175	175	150	150	200	250
Durometer Shore 00 (App.)	30-50	45-60	55-70	75-OVER	-----	-----
Shrinkage 7 Days @ 158(F)	5%	5%	5%	5%	5%	5%
K Factor	.30	.30	.38	-----	.25	.30



SAN DIEGO SEAL, INC.

7635 RONSON ROAD • SAN DIEGO, CALIFORNIA 92111

TEL: 858-278-3270 • FAX: 858-278-2950

E-MAIL: sales@sandiegoseal.com • VISIT US AT: www.sandiegoseal.com