

Silicone Sponge Rubber

R10470, a general-purpose silicone sponge, can be used in most applications.

R10480 has extremely low compression set and maintains its resiliency even under extended compression.

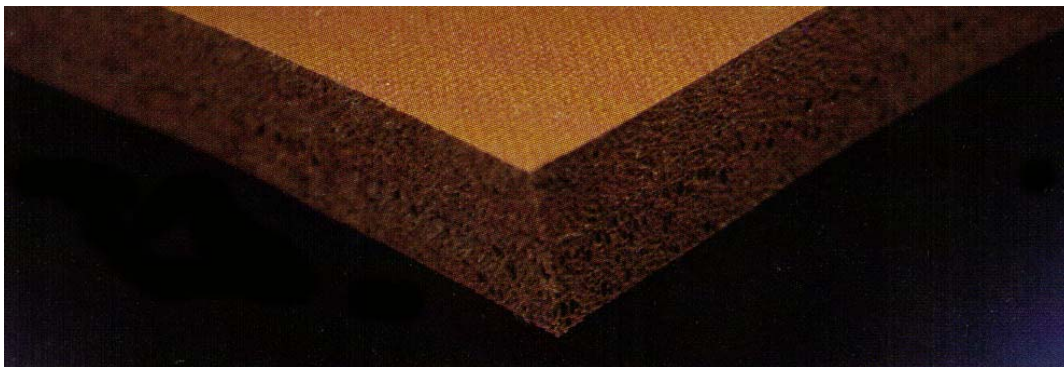
R10460 is flame retardant. When held in a vertical position and exposed to a 2,000°F flame for 12 seconds, there is no residential flame and less than a 10 second afterglow. Like R10480, it is especially resistant to compression set.

R10450 silicone sponge with fiberglass reinforcement is a unique construction. It has the compressibility of sponge, plus dimensional stability in the X-Y direction. The absence of stretch contributes to the consistent size and shape of die cut parts and eliminates outward extrusion under pressure.

R10490 fluorosilicone sponge rubber can be used as a gasket where it is necessary to contain fluids that would degrade normal silicone sponge and solid materials (special order basis).

R10404 closed-cell conformable silicone rubber sponge is designed for use where both conformability and heat transfer are necessary, such as between printed circuit boards and heat sinks, decal transfer or applying heat activated adhesives.

Flexible, compressible COHRLastic silicone closed cell sponge is designed for high performance gasketing, thermal shielding, vibration mounts and press pads. It is available in six constructions.



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(continued)

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Common Properties

Water Absorption (ASTM D 1056)	less than 5%	Thermal Conductivity (average) $2.6 \times 10^{-4} \frac{\text{cal cm}}{\text{cm}^2 \text{ sec. } ^\circ\text{C}}$	0.75 BTU in./hr. ft. ² °F	Specific Heat	0.3 BTU/lb. °F
Dielectric Strength	145 volts/mil (appr.)	Linear Thermal Expansion (room temp. to +500°F)	1.8×10^{-4} in./in. °F	Outgassing (NASA testing) (after 24 hrs. @ 257°F in vacuum)	less than 1% weight loss

Specific Properties

Product	Compression Deflection PSI (compressed 25% at room temperature)	Tensile Strength PSI	Elongation at break %	Compression Set, % (compressed 50% for 22 hours at 212°F)	Density lb./in. ³	Specifications*												
						AMS 3195	AMS 3196	MIL-R-6130 Type II, Gr. B&C	MIL-R-46089	BOEING BMS 1-23	BOEING BMS 1-60 Type I, Gr. B	Douglas DMS 1597	Douglas DMS 1980, Gr. 2	MIL-R-6130 Type II, Gr. A				
R10470	Medium	6-14	90	200	25	.017	■	■	■	■	■	■	■	■	■	■	■	■
General Purpose	Firm	12-20	130	200	25	.025	■	■	■	■	■	■	■	■	■	■	■	■
R10480	Soft	2-7	50	75	5	.012		■										
Low Compression Set	Medium	6-14	75	125	5	.017	■	■	■	■				■				
R10460	Medium	6-14	75	125	5	.017	■	■	■	■	■	■	■	■	■	■	■	■
Flame Retardent**	Medium	6-14	75	125	5	.017	■	■	■	■	■	■	■	■	■	■	■	■
R10490	Medium	9-15	125	125	15	.020												■
R10450	Medium	8-16	180 (fabric break PPI)	<10	25	.020	X, Y Dimensional Stability											
Fiberglass Reinforced	Standard†	20	120	150	15	.040	4.5 BTU in./hr. ft. ² °F											
R10404 Thermally Conductive																		
ASTM Test Method		D1056	D412	D412	D1056	D3574												

*CHR provides certification to the specifications listed when requested with order. **Meets UL 94 Flammability Classification 94HBF. †Extra Firm grade available as a special request item.

Thickness/ Tolerance, inches	Continuous Length, 36" w		36" x 36" only		36" x 36" only		36" x 36" only		36" x 36" only		36" x 36" only	
	Sheets 36" x 36"	R10470* Medium	R10470 Firm	R10480 Soft	R10480 Medium	R10460* Medium	R10450 Reinforced	R10490 Medium	R10404 Standard			
1/32 ± .010	■	■	†							†		
1/16 ± 1/64	■	■	■			■	■	■		†		■
3/32 ± 1/64	†	†	†			†	†	†		†		†
1/8 ± 1/32	■	■	■	■		■	■	■		†		■
3/16 ± 1/32	■	■	■	■		■	■	■		†		†
1/4 ± 3/64 - 1/32		■	■	■		■	■	■		†		■
3/8 ± 3/64		■	■	■		■	■	■		†		
1/2 ± 3/64		■	■	■		■	■	■		†		
Color	Orange - Tan Black & Gray**		Orange - Tan & Black**		Red	Brown	Dark Blue	Blue Gray	Blue		Light Green	

† Special Order, Minimum Quantity. *Meets UL 1570, 1571 and 1572. **All R10470 M&F in Black or Gray are provided on a minimum order basis

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