

CHR[®] Pressure-Sensitive Adhesive Tapes



For extreme temperature applications, Strip-N-Stick silicone rubber tapes outperform all other elastomer tapes in service life, weatherability, compression set resistance and electrical resistivity.

These pressure-sensitive Strip-N-Stick tapes are available in a variety of widths and thicknesses for use in gasketing, cushioning, thermal insulation and vibration dampening applications. Other uses include noise reduction, clamping of hot parts and electrolysis reduction between dissimilar metals.

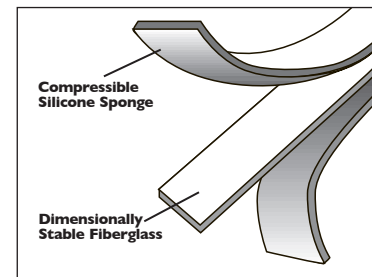
Strip-N-Stick tapes, which provide all the benefits of silicone rubber in an easy-to-apply, pressure-sensitive tape form, are available in standard stock widths or can be slit to order.

- **100S** is a silicone sponge with a high temperature silicone adhesive.
- **200A** is a silicone sponge with an aggressive acrylic adhesive.
- **300AR** is a reinforced silicone sponge with an aggressive acrylic adhesive. Its unique construction provides the compressibility of sponge and the dimensional stability of fiberglass reinforcement. Stretch is eliminated, which contributes to the consistent size and shape of cut parts and inhibits outward extrusion under high pressure. It further permits close tolerance slitting.
- **400S** combines a 30 durometer solid rubber with a high temperature silicone adhesive.
- **440A** combines a 30 durometer solid rubber with an acrylic adhesive. It provides for high elongation and good conformability, and is an excellent gasketing material.
- **512AF** uses F-12 fireblocking foam along with a film-supported acrylic pressure-sensitive adhesive.

Strip-N-Stick[®] Silicone Rubber

Features/Benefits

- Instant Gasket
- Easy to Apply
- Compressible and Flexible
- Conforms to Irregular Shapes
- Eliminates Die Cutting
- High Adhesion to Stainless Steel, Plastics, Aluminum and Composites
- Low Compression Set
- Available in Closed-Cell Sponge, Low Density Foam or Solid Rubber
- Temperature Ranges SNS Products With:
 - Acrylic Adhesives
-20°F (-29°C) to +350°F (+177°C)
 - Silicone Adhesives
-100°F (-73°C) to +500°F (+260°C)



Detail of 300AR reinforced silicone sponge

CHR® Tapes — Typical Physical Properties — Strip-N-Stick® Silicone Rubber

Physical Property	ASTM Test Method	Sponge 100S	Sponge 200A	Reinforced Sponge 300AR	Solid 440S	Solid 440A	Foam 512AF	
Color	—	Orange-Tan	Orange-Tan	Blue	Gray	Gray	Gray	
Adhesive*	—	Silicone	Acrylic	Acrylic	Silicone	Acrylic	PET Reinforced Acrylic	
Adhesion to Steel	oz./in. (gm/cm)	D1000	15 (168)	30 (335)	30 (335)	15 (168)	30 (335)	30 (335)
Compression Deflection†	psi	D1056	10 (68.9)	10 (68.9)	15 (82.7)	45 (310)	45 (310)	3 (20.7)
Tensile Strength	psi (MPa)	D412	65 (.448)	65 (.448)	100 (fabric break, ppi) (17.9 kg/cm)	700 (4.82)	700 (4.82)	20 (film break, ppi) (3.6 kg/cm)
Elongation	%	D412	150	150	<10	650	650	75
Compression Set††	%	D1056	25	25	25	30	30	5
Density of Backing	lb./in. ³ (g/cc)	D3574	0.019 (.526)	0.019 (.526)	0.020 (.554)	0.040 (1.11)	0.040 (1.11)	0.007 (.194)
Silicone Rubber Substrate	—	Sponge	Sponge	Reinforced Fiberglass Sponge	Solid	Solid	Foam	

*Adhesive shelf-life when stored at 70°F (21°C) to 90°F (32°C) at less than 50% humidity; 6.0 months for silicone adhesive on sponge or solid backings, 24.0 months for acrylic adhesive on any SNS backing material. To maximize shelf-life, store at 40°F (4.4°C) to 50°F (10°C).

†Compression Deflection – Compressed to 75% of original thickness. ††Compression Set – Compressed 50% for 22 hours at 212°F.

Thickness ^{†††} in.	mm	100S	200A	300AR	440S	440A	512AF	Roll Length yards (m)
1/32 ± .010	(.079 ± .13)				■	■		20 (18.2)
1/16 ± 1/64	(1.59 ± .41)	■	■	■			■	10 (9.1)
3/32 ± 1/64	(2.38 ± .41)	■	■	**			**	10 (9.1)
1/8 ± 1/32	(3.18 ± .79)	■	■	■			■	10 (9.1)
3/16 ± 1/32	(4.76 ± .79)	■	■	■			■	5 (4.6)
1/4 + 3/64 -1/32	(6.35 + 1.19 - .79)						■	5 (4.6)
3/8 ± 3/64	(9.52 ± 1.19)						**	5 (4.6)
1/2 ± 3/64	(12.7 ± 1.19)						**	5 (4.6)
Minimum widths, inches (mm)		1/2 (12.7)	1/2 (12.7)	1/4 (6.35)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	

** Special order, minimum quantity.

†††Thickness tolerances for backing only.

Cell Size: COHlastic silicone sponge products may show variation in cell size. This is not cause for rejection if CHR finished product standards are met. Strip-N-Stick Dimensions: Upon removal of the liner, the potential exists for dimension changes as the sponge relaxes.

Important note to purchaser: Values shown are typical and are not to be used for specifications. All data is subject to change without notice. Before using, the user should determine the suitability of the product for its intended use, and the user assumes all risk and liability in connection therewith. Specifications are also subject to change without notice.

CHR® is a registered trademark.



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