



# PEEL-N-STICK Silicone Rubber Adhesive Tapes

An HPP Product Series



- ❑ **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**

PEEL-N-STICK is the trade name for the HPP family of silicone rubber tapes. For extreme temperature applications, PEEL-N-STICK silicone rubber tapes out-perform all other elastomers in service life, weather-ability, compression set resistance and electrical resistivity.

**APPLICATIONS:** These pressure sensitive PEEL-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.

PEEL-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 slit to order.

## **Styles Available:**

**Type HP100S:** Silicone Sponge with a high temperature silicone adhesive.

**Type HP200A:** Silicone Sponge with an aggressive acrylic adhesive.

**Type HP300AR:** 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.

**Type HP440S:** Combines a 30 durometer solid rubber with a high temperature silicone adhesive.

**Type HP400A:** Combines a 30 durometer solid rubber with an acrylic adhesive. It provides for high elongation and good conformability, and is an excellent gasketing material.

**Type HP512AF:** Uses fire-blocking foam along with a film-supported acrylic pressure sensitive adhesive.

Physical Properties	Unit of Measurement	Sponge HP100S	Sponge HP200A	Sponge Reinforced HP300AR	Solid HP440S	Solid HP440A	Foam HP512AF	ASTM Test Method
Adhesion to Steel*	Oz./in (gm/cm)	15 (168)	30 (335)	30 (335)	15 (168)	30 (335)	30 (335)	D1000
Compression Deflection	Psi (Kpa) Compressed to 75% of original thickness	6-14 (41.3-96.5)	6-14 (41.3-96.5)	8-16 (55.1-110.2)	40-50 (275.6-344.5)	40-50 (275.6-344.5)	1-5 (6.89-34.6)	D1056
Tensile Strength	Psi (Mpa)	65 (.448)	65 (.448)	100 (fabric break, ppi) (17.9kg/cm)	700 (4.82)	700 (4.82)	20 (film break, ppi) (3.6kg/cm)	D412
Elongation	%	150	150	<10	650	650	75	D412
Compression Set	% (compressed 50% for 22hrs. @ 212°F)	25	25	25	30 (compressed to 75% of original thickness)	30 (compressed to 75% of original thickness)	5	D1056
Density of Backing	Lb/in <sup>3</sup> (g/cc)	.019 (.526)	.019 (.526)	.020 (.554)	.040 (1.11)	.040 (1.11)	.007 (.194)	D3574
Silicone Rubber Material Type	—	Sponge	Sponge	Reinforced Fiberglass sponge	Solid	Solid	Foam	—
Adhesive Type (with release liner)	—	Silicone	Acrylic	Acrylic	Silicone	Acrylic	Acrylic	—
Color	—	Orange	Orange	Blue	Gray	Gray	Gray	—

\* Adhesive shelf life when stored at 70 F (21 C) to 90 F (32 C) at less than 50% humidity:  
Silicone adhesive on sponge – 6 months; silicone adhesive on solid – 1 year; acrylic adhesive on sponge or solid – 2 years.  
To maximize shelf life, store at 40 F (44 C) to 50 F (10 C).

#### Availability:

Thickness / in.	Tolerance*** / mm	HP100S	HP200A	HP300AR	HP440S	HP440A	HP512AF	Roll Length Yards / mm
1/32 +/- .010	(0.79 +/- .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)
¼ + 3/64 – 1/32	(6.35 +/- 1.19 - .79)						—	5 (4.6)
Min. widths, in (mm)		½ (12.7)	½ (12.7)	¼ (6.35)	½ (12.7)	½ (12.7)	½ (12.7)	—

\*\* Special order, minimum quantity.  
\*\*\* Thickness tolerance for backing only.

Important notice to Purchaser: The following is made in lieu of all warranties, express or implied. Sellers and manufacturers only obligation shall be to replace such quantity of the product found to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be changed except by an agreement signed by officers of seller and manufacturer. Specifications are subject to change without notice.

Cell Size: Silicone Sponge products may show variations in cell size. This is not cause for rejection if HPP finished product standards are met

PEEL-N-STICK Dimensions: Upon removal of the liner, the potential exists for dimension changes as the sponge relaxes.