



TBP Converting, Inc.
Saint-Gobain Norseal 512GF & 520GF Silicone
SNS Tapes PDS

512GF AND 520GF SILICONE SNS TAPES

Pressure-Sensitive Adhesive Tapes

Saint-Gobain® Norseal® Silicone SNS Foam Tapes outperform all other elastomer tapes in service of life, weatherability, compression set resistance and electrical resistivity in extreme temperature applications. These pressure-sensitive silicone tapes are specially designed with slightly thicker adhesive PET film carrier and thinner acrylic PSA liner. Products 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.

Norseal Silicone SNS Tapes provide all the benefits of silicone foams in an easy-to-apply, pressure-sensitive tape form. They are available in standard stock widths or can be slit to order.

- 512GF offers our flame-retardant, lightweight, modified F-12 Silicone Foam as the base material, along with a film-supported acrylic pressure-sensitive adhesive.
- 520GF offers flame-retardant, closed cell F-20 Silicone Foam as the base material, along with a film-supported acrylic pressure-sensitive adhesive.



APPLICATIONS

- Military
- Drones
- GPS
- Walkie talkies
- Environmental gasketing

Norseal 512GF and 520GF Silicone SNS Tapes – Properties

Performance tests are run using standard test procedures.

The values presented are typical values and should not be used for specification purposes.

Property	ASTM Test Method	Foam	
		512GF	520GF
Color	-	Light Gray	Dark Gray
Adhesive*	-	PET Reinforced Acrylic	PET Reinforced Acrylic
Adhesion to Steel Oz./in. (gm/cm)	D1000	30 (335)	30 (335)
Compression Deflection† psi (kPa)	D1056	3 (20.7)	8 (55.2)
Tensile Strength psi (MPa)	D412	20 (film break, ppi) (3.6 kg/cm)	20 (film break, ppi) (3.6 kg/cm)
Elongation %	D412	75	75
Compression Set†† %	D1056	5	5
Density of Backing lb/ft ³ (kg/m ³)	P3574	12 (192)	20 (320)
Silicone Rubber Substrate	-	F-12	F-20

*Adhesive shelf life when stored at 70°F (21°C) to 90°F (32°C) at less than 50% humidity, 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.

Physical properties other than adhesion are tested prior to adhesive application.

Thickness ^{†††} in.	mm	512GF	520GF	Roll Length yards (m)
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)	

** Special order, minimum quantity.

†††Thickness tolerances for foam backing only.

Cell Size: **Norseal** silicone foam products may show variation in cell size. This is not cause for rejection if **Saint-Gobain** finished product standards are met. SNS Dimensions: Upon removal of the liner, the potential exists for dimension changes as the foam relaxes.

Important Instructions

- Because **Saint-Gobain** cannot anticipate or control every potential application, we strongly recommend testing of this product under individual application conditions prior to commercial use.
- Surfaces must be clean and free of oil, grease, moisture, dust and dirt. Isopropyl alcohol is good for cleaning the surface. Do not remove liner until tape is in proper position. Avoid touching adhesive surface before application.

Shelf Life

24 months from date of shipment for base material when stored in original packaging at temperatures up to 70°F (21°C), < 50% relative humidity, and away from direct sources of heat and direct sunlight.

IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain products for all intended uses and that the materials to be used comply with all applicable regulatory requirements. Saint-Gobain assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated.

WARRANTY: For a period of 6 months, Saint-Gobain warrants this product(s) to be free from defects in manufacturing. The only obligation under any applicable product warranty will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. SAINT-GOBAIN DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Form #1634 | © Saint-Gobain April 2023 | **Norseal** and **Saint-Gobain** are trademarks of Saint-Gobain.