

300-700 SERIES

Solid Silicone Rubber (Sheets)

Saint-Gobain® Norseal® 300-700 Series Silicone Solid is manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and comes with a general purpose silicone rubber, manufactured in 36 in. × 36 in. sheets. It is available in degrees of hardness ranging from relatively soft 30 durometer to relatively hard 70 durometer on the Shore A scale. It is manufactured in different formulations to provide a choice of physical properties and cost considerations. **Norseal** 300-700 Series withstands temperatures from -100°F to +500°F. Other benefits include extremely long life, gasket reliability and non-toxicity.

Norseal Solid Silicone products are specially intended to provide the following features:

- Low compression set
- Low outgassing
- Excellent release characteristics
- Long service life
- Good chemical and fluid resistance
- Capable of meeting ZZ-R-765, class 2A and 2B
- Capable of meeting Federal Specification A-A-59588 Class 2A, 2B
- Capable of meeting specification AMS-3300

Available Sizes

Standard thickness: .031, .063, .094, .125, and .25 (0.79, 1.59, 2.38, 3.18 and 6.35 mm)

Sheet size: 36 in. × 36 in. (914 mm × 914 mm)

Special thickness and roll sizes also available.



APPLICATIONS

- MRI/CAT scan cabinets
- Flood lights and spotlights
- Commercial appliances
- Dielectric barriers
- L bar sealer
- Solder equipment
- Kitchen cabinetry

Norseal 300-700 Series — Properties

(COHRLastic® 300-700)

Performance tests are run using standard test procedures. The values presented are typical values and should not be used for specification purposes.

Property	Test Method	300	400	500	600	700
Durometer: Shore A	ASTM D2240	30	40	50	60	70
Tensile Strength: psi	ASTM D412	850	900	900	700	750
Tear Strength	ASTM D624	40	80	75	50	65
Elongation: %	ASTM D412	500	500	400	200	160
Compression Set: %, 70 hours @ 302°F	ASTM 395	15	15	15	20	20
Dielectric Strength: volts/mil	—	500	500	500	500	500
Thermal Conductivity: BTU, in./hr.ft.2 °F	—	1.3	1.3	1.3	1.3	1.3
Temperature Range: °F	—	-100 to +500	-100 to +500	-100 to +500	-100 to +500	-100 to +500
Color	—	Red	Red	Red/Black	Red	Red

Norseal 300-700 — Standard Sheet Sizes

36 in. × 36 in. (914 mm × 914 mm)

Product No.	Thickness in. (mm)
300	.031, .063, .094, .125, .25 (.79, 1.59, 2.38, 3.18, 6.35)
400	.031, .063, .094, .125, .188, .25 (.79, 1.59, 2.38, 3.18, 4.76, 6.35)
500 Red	.031, .063, .094, .125, .188, .25 (.79, 1.59, 2.38, 3.18, 4.76, 6.35)
500 Black	.031, .063, .094, .125 (.79, 1.59, 2.38, 3.18)
600	.031, .063, .094, .125, .188, .25 (.79, 1.59, 2.38, 3.18, 4.76, 6.35)
700	.031, .063, .094, .125, .188, .25 (.79, 1.59, 2.38, 3.18, 4.76, 6.35)

Options (subject to minimum order requirements)

Acrylic (or silicone) pressure-sensitive adhesive (PSA) available in sheet format only (see **Norseal** Silicone Elastomer Adhesive Option data page for details).

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.

When using PSA option, 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.

Recommended service temperature of the silicone elastomer is between -100°F to 500°F (-73°C to 260°C).

Shelf Life

120 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. (See the applicable data sheets for pressure sensitive adhesive options).

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 your actions or inactions, including your use, design, fabrication or application of the products into which the materials are incorporated.

WARRANTY: This document should not be considered a warranty or a guarantee. The descriptions of the Product provided hereinabove may vary based on specifications requested and testing protocols. Typically, Saint-Gobain warrants that product(s) will meet mutually agreed specifications at delivery and Saint-Gobain honors any breach of warranty claims for six (6) months from delivery of the products. If a product is determined to be nonconforming with its warranty, Saint-Gobain’s sole obligation is, at its option, to either replace the nonconforming products or reimburse the purchase price for the same.

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 OTHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR USE.



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