

R10480S (SOFT)

Low Compression Set Silicone Sponge

Saint-Gobain® Norseal® R10480S Silicone Sponge Rubber is manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and comes with a low compression set closed-cell sponge that can be used in most gasketing applications. This material is flexible and compressible and designed for use in extreme temperature ranges, with excellent weatherability, compression set resistance, electrical strength and non-stick properties.

Norseal R10480S is specially intended to provide the following features:

- Recognized to UL 50E gaskets and seals for electrical enclosures (black)
- Excellent compression set resistance
- Maintains its resiliency even under extended compression
- Soft density for low compression force
- Capable of meeting MIL-R-6130 Type II, Grade B and Grade C/ASTM D6576 Type 2, Grade B and Grade C, ASTM D1056 Type 2, Class A, D. Contact plant for specific grades
- Meets FDA 21 CFR 177.2600



APPLICATIONS

- Missiles
- Drones
- Digital signage
- Walkie-talkies
- Environmental gasketing

Available Sizes

Thickness in. (mm)	.094 (2.38)	.125 (3.18)	.188 (4.76)	.250 (6.35)	.375 (9.53)	.500 (12.7)
Continuous Roll 36 in. (914 mm)	•	•	•	•	—	—
Sheets 36 in. × 36 in. (914 mm × 914 mm)	•	•	•	•	•	•

Norseal R10480S (Soft) — Properties

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	Typical Value
Compression Deflection: psi (kPa)	ASTM D1056	5 (35)
Elongation: %	ASTM D412	75%
Tensile Strength: psi (kPa)	ASTM D412	50 (345)
Compression Set: %	ASTM D1056	5%
Density: lbs./ ft. ³ (kg/m ³)	ASTM D3574	21 (332)
Water Absorption: %	ASTM D471	<5%
Operating Temperature: (°F)	-	-100 to +500
Color	Visual	Orange/Red

Options (subject to minimum order requirements)

Acrylic or silicone pressure-sensitive adhesive (PSA) available in sheet format only.

Important Instructions

- Because of the softness and the processing of R10480 Soft, we do not recommend die-cutting narrow width gasketing. Contact Application Engineering.
- 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 options, 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 base sponge is -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).



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