NORSEAL®

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R10490

Fluorosilicone Sponge Rubber

Saint-Gobain® **Norseal**® R10490 Medium Silicone Sponge Rubber is manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and comes with a fluorosilicone 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. R10490 is often the material of choice for applications containing oils and fluids that would degrade normal elastomers.

Norseal R10490 is specially intended to provide the following features:

- Capable of meeting AMS 3323, Class 2
- Capable of meeting MIL-R-6130 Type 2, Grade A, B and C (excluding paragraph 4.5.7 flame resistance)
- Capable of meeting ASTM D6576 Type 2 Grade A, B and C (excluding paragraph 15 flame resistance)

APPLICATIONS

- Military aircraft
- Downhole drilling oil
- Missiles

Available Sizes

Thickness in. (mm)	.031 (.79)	.063 (1.59)	.094 (2.38)	.125 (3.18)
Continuous Roll 36 in. (914 mm)	•	•	•	•
Sheets 36 in. × 36 in. (914 mm × 914 mm)	•	•	•	•

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Norseal R10490 Series — 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	15 (104)
Elongation: %	ASTM D412	125%
Tensile Strength: psi (kPa)	ASTM D412	180 (1245)
Compression Set: %	ASTM D1056	25%
Density: lbs./ ft.^{3} (kg/m^3)	ASTM D3574	35 (554)
Water Absorption: %	ASTM D471	<5%
Operating Temperature: (°F)	–	-80 to +400
Color	Visual	Blue

Options (subject to minimum order requirements)

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

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 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 -80°F to 400°F (-62°C to 204°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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