TECHNICAL DATASHEET:

Norseal® R10490 Fluorosilicone Sponge Rubber

PRODUCT DESCRIPTION

Norseal® R10490 Medium Silicone Sponge Rubber 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)

TYPICAL APPLICATIONS

- Military aircraft
- Downhole drilling oil
- Missiles

PRODUCT FEATURES & BENEFITS

- Fluorosilicone closed-cell sponge construction
- Excellent weatherability and compression set resistance
- Strong electrical strength and non-stick properties
- Suitable for applications with oils and fluids that degrade normal elastomers
- Available with acrylic or silicone PSA in sheet format

TECHNICAL DATA

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./ft³ (kg/m³)	**ASTM D3574**	**35 (554)**
Water Absorption: %	**ASTM D471**	**<5%**

Specifications are believed to be accurate at the time of publication and are subject to change without notice. It is the responsibility of the end-user to test and determine suitability of this material for a particular application. H-O will provide samples for this purpose at no charge. **REV. 0**

H-O PRODUCTS CORPORATION

FLUOR10490

PROPERTY	TEST METHOD	TYPICAL VALUE
Operating Temperature: (°F)	—	-80 to +400
Color	Visual	Blue

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)	●	●	●	●

OPTIONS

Acrylic or silicone pressure-sensitive adhesive (PSA) available in sheet format only (subject to minimum order requirements).

IMPORTANT INSTRUCTIONS

- 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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