

F-10

Silicone Foam Rubber

Saint-Gobain® Norseal® F-10 Silicone Foam is a low-density silicone foam rubber manufactured by **Saint-Gobain** Performance Plastics Corporation Tape Solutions. Its open cell structure intends to provide excellent softness and flexibility, making it ideal for gasketing, insulation, and dampening applications where conformability or low compressive force are desirable.

Norseal F-10 is engineered to deliver environmentally stable, flame-retardant performance with unique low toxic gas emissions, excellent compression set resistance, and unparalleled conformity. The lightweight nature and easy processing of F-10 offers a high degree of design flexibility, making it ideal for many gap-filling applications across a vast range of temperatures. Its excellent durability and resistance to various environmental conditions and long lifespan offers effective solutions without compromising performance.

Norseal F-10 is specially formulated and intended to provide the following features:

- Smooth surface on both sides for excellent sealing against air, dust, light and moisture
- Excellent compression set resistance
- Low levels of toxicity and smoke generation
- Excellent resistance to ultraviolet light, ozone and extreme temperature ranges
- Open-cell structure foam
- Non-corrosive for use with metals
- Available as a pressure-sensitive adhesive tape under the **Norseal** Silicone SNS 510GF product line

Available Sizes

Standard thickness: 0.125 in (3.2mm), 0.188 in (4.8mm), 0.25 in (6.4mm), 0.375 in (9.6mm), 0.50 in (12.7mm), 0.75 in (19mm) and 1 in (25.4mm)

Master roll size: 36 in (914 mm) width. Length varies with thickness.



APPLICATIONS

- Electronics
- Drones
- Handheld device
- Transportation
- HVAC
- Medical application
- Low force enclosures
- Sensitive component protection

Norseal F-10 – Properties

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

Property	Unit of Measure	Value	Test Method
PHYSICAL			
Colors	-	Gray (Std.), White, Black, Brown	-
Tensile Strength	psi (kPa)	> 10 (69)	ASTM D412
Elongation at Break	%	> 50	ASTM D412
Density	lbs./ft ³ (kg/m ³)	10 (160)	ASTM D3574
Compression Deflection	psi (kPa)	< 2.0 (14)	ASTM D1056
Compression Set (50% for 22 hrs. at 212°F)	%	< 10	ASTM D1056
Surface Description	-	Smooth both sides	Visual

FLAMMABILITY

UL94 V0 / ASTM D3801	-	Pass (internal test)	-
Temperature Range	°F (°C)	-60 to +400 (-51 to +204)	-

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.

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.

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