

F-15

Silicone Foam Rubber

Saint-Gobain® Norseal® F-15 is manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and comes with a medium-low density silicone intended to deliver environmentally stable, flame-retardant performance for gasketing, insulation and dampening applications. **Norseal F-15** offers excellent compression set resistance and is often the product of choice in aircraft, aerospace, mass transit, military and electronic applications. F-15 offers excellent resistance to environmental conditions, making it an excellent choice for both indoor and outdoor sealing and gasketing applications.

Norseal F-15 is specially intended to provide the following features:

- Meets key industry standards: Alstom Bombardier SMP 800-C; UL V-0
- Non-toxic, low smoke generation and low flame spread
- Smooth surface on both sides for excellent sealing against air, dust, light and moisture
- Excellent compression set resistance
- Excellent resistance to ultraviolet light, ozone and extreme temperature ranges
- Non-corrosive for use with metals and in hostile environments
- Available as a pressure-sensitive adhesive tape under the **Norseal** Silicone SNS 515GF product line

Available Sizes

Standard thickness: .063, .094, .125, .188, .250, .375, and .500 in. (1.6, 2.4, 3.2, 4.8, 6.4, 9.5 and 12.7 mm)

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

Special thickness and roll sizes also available.



APPLICATIONS

- Rail and transit
- Aerospace
- LED lighting
- Electronics
- Lithium ion battery pack for electric vehicles

Norseal F-15 — 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	-	Grey	-
Tensile Strength	psi (kPa)	30 (207)	ASTM D412
Elongation at Break	%	50	ASTM D412
Density	lb.ft ³ (kg/m ³)	15 (240)	ASTM D3574
Compression Deflection	psi (kPa)	6 (41)	ASTM D1056
Compression Set (50% for 22 hrs. at 212°F)	%	10	ASTM D1056
Surface Description	-	Smooth both sides	-
Flammability			
Flame Resistance (UL)	-	Pass	UL 94 V-0
Flame Spread Index	L ₁	< 35	ASTM E162
Smoke Density	D ₂	Pass	ASTM E662
Toxic Gas Emissions Rating	-	Pass	SMP-800C
Environmental			
Water Absorption	%	<5	ASTM D471
Temperature Range	F° (°C)	-60 to + 400 (-51 to +204)	-
FDA Extractables	-	Pass	21 CFR 177.2600 (food contact)
Gasket and Seals for Electronic Enclosures	-	Pass	UL 50E
Electrical and Thermal			
Dielectric Strength	volts/mil (VPM)	111	ASTM D149
Volume Resistivity	ohms-cm	4.56 × 10 ¹⁵	ASTM D257
Thermal Conductivity	W/m°K	0.05371	ASTM C518

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

10 years after the date of sale when stored in original packaging at temperatures up to 70°F (21°C) and 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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