NORSEAL®

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R10400M

Flame Retardant Silicone Sponge Rubber

Saint-Gobain® Norseal® R10400M is manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and comes with a flame-retardant, closed-cell sponge recognized to UL 94V-0 requirements. R10400M utilizes the high consistency silicone rubber (HCR) chemistry. This provides superior mechanical strength properties such as improved tear strength, abrasion resistance and tensile strength over other silicone rubber systems. The material is flexible and compressible with excellent weatherability and non-stick properties. In addition, R10400M is post-cured to minimize volatiles for a clean gasketing application.

Norseal R10400M is specially intended to provide the following features:

- Capable of meeting AMS 3195 closed-cell specification
- Excellent compression set resistance
- Maintains its resiliency even under extended compression
- Capable of meeting ASTM D6576 Type 2, Grade B and Grade C, Grade 2/3

APPLICATIONS

- Commercial/residential humidifiers
- Electric meters
- Filtration seals
- Flame retardant lighting gaskets
- Flame retardant insulation gasketing for aircraft bulkheads

Available Sizes

Thickness in. (mm)	.063 (1.59)	.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)	•	•	•	•	•	•	•

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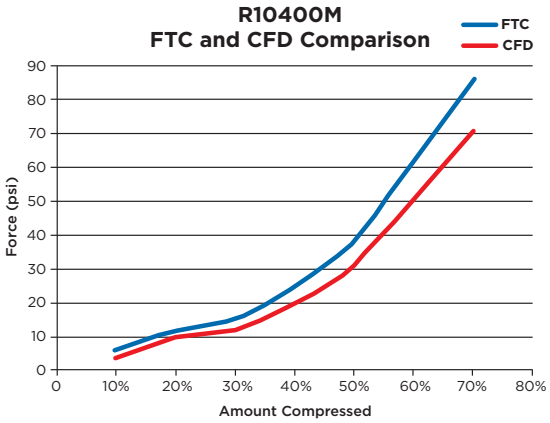
Norseal R10400M – Properties

(Formerly known as COHRlastic R10400M)
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	R10400M Series
Compression Deflection: psi (kPa)	ASTM D1056	10 (69)
Elongation: %	ASTM D412	250%
Tensile Strength: psi (kPa)	ASTM D412	100 (690)
Compression Set: %	ASTM D1056	10%
Density: lbs./ ft.^{3} (kg/m^3)	ASTM D3574	35 (560)
Tear Strength: ppi (kN/m)	ASTM D624	20 (3.5)
Color	Visual	Blue/Gray
Operating Temperature: °F	-	-100 to +500
Environmental		
Water Absorption: %	ASTM D471	<5%
FDA Extractable (Food Contact)	21 CFR 177.26	Pass
Flammability		
Flame Rating	UL 94	V-0
Flame Spread Index	ASTM E162	Class B
Smoke Density	ASTM E662	Pass
Toxic Gas Emissions Rating	SMP-800C	Pass
Euro Fire Protection (Rail)	DIN5510-2	Pass
Electrical and Thermal Properties Reference		
Dielectric Constant	ASTM D150	1.78
Dielectric Strength: volts/mil	ASTM D149	200
Volume resistivity: ohm-cm	ASTM D257	10^{15}
Thermal Conductivity: W/m K	ASTM E1530	0.14



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.
- 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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