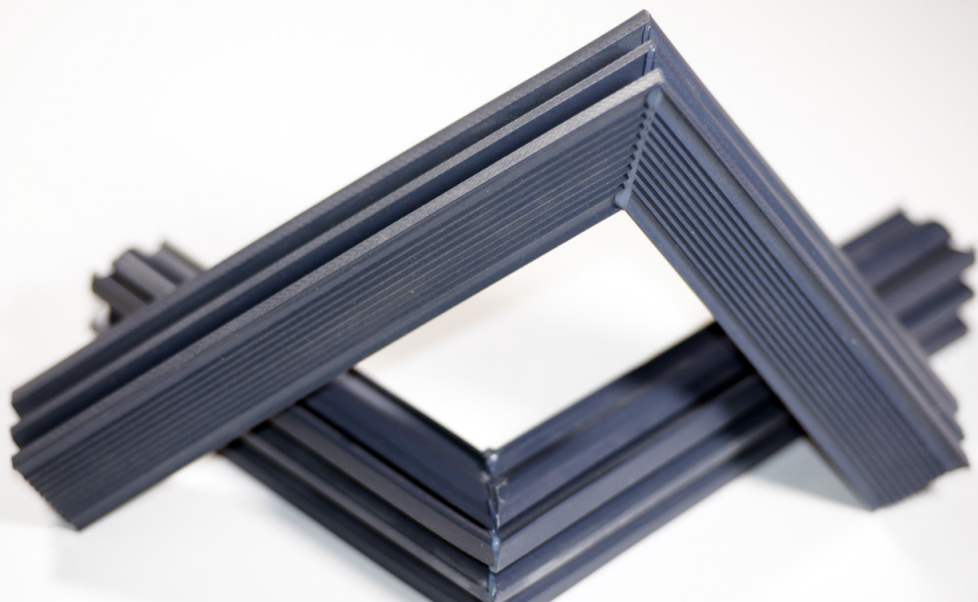




SILICONE SEALING SOLUTIONS FOR RAIL MARKETS

Covison®



Rail Solutions

At Saint-Gobain PPL Sealing Solutions, we understand the criticality of your application.

We manufacture an entire range of extruded and molded silicone seals co-designed with our customers to be the perfect fit their applications. We bring our clients not only ready to use solutions thanks to the EN45545 compliant material that we developed, but also peace in mind solutions when you require a customized seal.

Qualified Materials that Perform

Our top of class silicone materials are formulated in our labs. We develop compounds that fit your needs in terms of performance but that are also ready to be used in your market.

In order to adapt to the evolving regulatory environment of the railway industry, we have prepared a set of solutions dedicated to the rails industry. Ask for the compound 9774ED, specially qualified according EN 45545-2:2013 R22/R23, class HL3.

Our Concern: The Sealing Performance of your Equipment

Typically silicone seals are used in different compartments of a wagon: HVAC, windows, doors or interiors. The vibrations and different movements created during transit makes the performance of the sealing solution critical.

We use 30+ years of experience in the industry and a close understanding of your challenges to create the seal that best fits your needs. Moreover, we developed innovative processes such as FEA (Finite Element Analysis) to anticipate the behavior of the seal and detect potential problems before they occur. The result: a customized seal with an optimized fit for YOUR application.

We also use the resources of our R&D center to put new solutions on the market, such as a self-adhesive option available on request. We will bond any tape you want to use on our silicone seal.

ASK AN ENGINEER



Features and Benefits

- Compliant EN 45 545
- Customized for your critical applications
- Fast time to market
- Possible small series
- Multiple colours available
- Multiple hardness available
- Extruded or molded
- Several finishing options available

Typical Applications

- HVAC
- Doors
- Windows
- Flooring
- Interiors

Regulatory Compliance

- REACH compliant

Delivery Options

Standard coils	✓
Cut to length	✓
Junction	✓
Anti elongation strip	✓
Low friction coatings	✓
Metal Insert	✓
Self Adhesive	Ask our Engineers

Material Compliance

Special Standard	EN 45 545 HL3 for R22 and R23
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For storage standard conditions, please contact us.

Why Silicone?

- Superior lifetime
- Wide choice of colors
- EN45 545 compliant

Typical Physical Properties

Property	ASTM Method	Value or Rating
Hardness (Shore A)	NF ISO 7619-1	70
Basic Colors	-	Night Blue
Tear Resistance - angle test piece (n/mm)	NF ISO 34-1 Ba	19-20
Specific Gravity (g/cm ³)	NF ISO 2781	1,3 -1,4
Tensile Strength (MPa)	NF ISO 37	9-9,5
Compression Set (%) (70h - 150°C - 25%)	NF ISO 815-1	16-17
Elongation at break (%)	NF ISO 37	-230
Maximum Recommended Operating Temp., C°	-	200°C
Low Temp. Flexibility, C° (F°)	-	- 50°C

Unless otherwise noted, all tests were conducted at room temperature (73°F). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

These figures are intended as a guide and should not be considered as specifications. According to the application, the user must check that these properties are compliant.

Rail Applications



- 1 HVAC Seals
- 2 Lighting Gaskets
- 3 Door Seal
- 4 Window Gaskets

- 5 Floor Panels
- 6 Ducting Gaskets
- 7 Panels Seals



We Bring you Peace of Mind Sealing Solutions

Covison® Sealed. By Design

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NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

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