

# FOAM-IN-PLACE GASKETING

**Mono-Component, Robotically Applied, Foam-In-Place PUR Material**

**Saint-Gobain® Dynafoam®** (member of the **Norseal®** product range) is manufactured by **Saint-Gobain** Performance Plastics Corporation, Tape Solutions business, and comes with a mono-component foam in place gasketing and cushioning material. It is foamed by mixing with Nitrogen (less than 5ppm humidity) and cures by reacting with moisture, creating low density thermoset, elastomeric, foamed gaskets.

This product range has been developed to seal out water, air or dust as well as decouple the noise vibrations. Thanks to its semi-closed cell structure, **Dynafoam** intends to create efficient water seal with only 30% compression. This cell structure generates soft and conformable gaskets avoiding thin walled plastic parts to distort when compressing the gasket. It shows a low water absorption and extremely tough skin, which prevent the gasket from being torn under rough assembly conditions.

Thanks to its engineered viscosity and its mechanical foaming, **Dynafoam** exhibits excellent thixotropic behavior allowing 3-dimensional and upside-down applications.

The desired gasket height can be achieved with or without a groove, allowing the maximum design flexibility for engineers.

## Packaging

**Dynafoam** products are packed in a multilayer aluminum bag to prevent any leakage during transport and manipulation, as well as protecting the material from the humidity:

- **Dynafoam** 7440 range in drums of 180 kg



## APPLICATIONS

- Automotive:
  - HVAC filter housing
  - Stop lights
  - Door modules and door locks
  - Timing belt covers
  - Plenum chambers
- Home appliances
- Electrical/electronic components
- Audio speakers
- Construction elements

**Dynafoam Range – Properties**

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	Unit	7440 FC
Density	ASTM D1056	kg/m <sup>3</sup>	220 - 280
Hardness	ASTM D2240	Shore OO	30 - 50
Force to compress (30%)	ASTM D1667	N/cm	1.5 - 3.5
Deflection force (30% after 1 minute)	ASTM D1667	N/cm	1.2 - 2.5
Strength at break	DIN 53571	N/cm <sup>2</sup>	> 20
Elongation at break	DIN 53571	%	> 100
Water absorption	ASTM D1056	%	< 10
Compression set (25% - 70°C)	ASTM D1667	%	< 15
Height : Width ratio	-	-	0.7
Maximum height	-	mm	7
Color*	-	-	Light Grey
Temperature range	-	°C	Continuous: -40 to 70 / Intermittent: +120

\*Color may slightly vary from lot to lot, without affecting product performance.

**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. Our labs can support in prototyping.

**Shelf Life**

**Dynafoam** 7440 FC has a shelf life of 6 months from date of production, under the following storage conditions: room temperature ≤ 25°C, under shelter (i.e. without direct exposure to sunshine & light).

**Dynafoam** 7440 FC has a shelf life of 12 months from date of production, under the following storage conditions: transported in refrigerated containers and refrigerated land transport, storage temperature of ≤ 15°C, under shelter (i.e. without any direct exposure to sunshine & light).

Before use it is recommended to condition the **Dynafoam** drum for at least 24 hours at room temperature, to optimize the viscosity for pumping.

**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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