

## Foam In Place Gasketing

Mono-Component, Robotically Applied, Foam-In-Place PUR Material Saint-Gobain® Dynafoam® (member of the Norseal® product range) is 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 creates 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



### **TYPICAL 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



# MATRIX PRECISION CONVERTING

*Your Application. Our Expertise.*

Matrix specializes in precision cutting and converting of engineered materials to meet the exact specifications required by manufacturers. Our state-of-the-art equipment and expertise ensure precise customization, providing manufacturers with streamlined solutions to enhance their product quality and performance.

## 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.