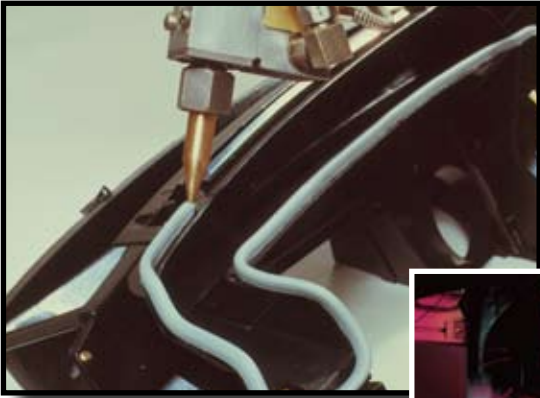


Dynafoam[®] 7440FC



DYNAFOAM[®] 7440FC is a mono-component foam-in-place gasketing material. It is foamed by mixing with nitrogen or dry air (less than 5ppm humidity) and cures by reacting with moisture, creating low density, thermoset, elastomeric, foamed gaskets.

DYNAFOAM[®] 7440FC is intended for use as water, dust, air and noise seal. Thanks to its semi closed-cell structure, DYNAFOAM[®] 7440FC creates efficient water seal with only 30% compression. Its semi closed cell structure generates soft and conformable gaskets avoiding thin walled plastic parts to distort when the gasket is compressed. It shows a low water absorption and extremely tough skin, which will prevent the gasket from being torn under rough assembly conditions.

DYNAFOAM[®] 7440FC was specifically designed for a fast cure, that doesn't need any High Humidity Box (HHB).

Thanks to its low compression set, it is ideal for semi-permanent (serviceable) seals.

Thanks to physical foaming, DYNAFOAM[®] 7440FC exhibits excellent thixotropic behaviour allowing 3-dimensional and upside-down applications.

The desired gasket height (up to 6mm) can be achieved with or without a groove, allowing engineers maximum design flexibility.

Robotically Applied Foam-In-Place Gasketing Material

Features / Benefits

- Thixotropic behaviour allowing 3-dimensional and upside-down applications, without groove requirement
- Fast curing, without the need of a High Humidity Box (HHB)
- Very efficient water seal with only 30% compression
- Excellent (humidity) ageing resistance
- Low water absorption thanks to the good ratio open cells : closed cells
- Soft, easily compressible foam compensating very high tolerances
- Excellent mechanical properties
- Wide temperature range, allowing automotive underhood applications

Applications

- Automotive HVAC filter housing and air outlets
- Automotive lightings
- Automotive door cassette modules
- Home appliances
- Electrical / Electronic components
- Audio speakers
- Construction elements

DYNAFOAM[®] 7440FC is extruded directly onto the part. By changing the angle of the nozzle, the flow rate and/or the robot speed, the gasket can be adapted to the desired height.

Designed for automated applications, DYNAFOAM[®] 7440FC enhances productivity in large volume applications and results in significant savings in labour and materials by eliminating the die-cut scrap and by reducing the material inventory. Parts can be handled quickly and easily, eliminating production bottlenecks. Unlike hand-applied gaskets, DYNAFOAM[®] 7440FC offers a repeatable process from cycle to cycle.

DYNAFOAM[®] 7440FC is environmentally friendly and does not contain cadmium, lead, chrome (VI), mercury nor other substances subject to declaration in the International Material Data System list.

SAINT-GOBAIN Performance Plastics Chaineux is an ISO 9001/14001 certified company.

Physical Properties

Property	Unit	Test Method	Value*
Density (foamed & cured)	kg/m ³	ASTM D1056	230-270
Hardness	Shore OO	ASTM D2240	35-55
Compression Set	%	ASTM D1667	< 15
Tensile Strength	N/cm ²	DIN 53571	> 20
Elongation @ Break	%	DIN 53571	> 100
Water Absorption	%	ASTM D1056	< 10
Temperature Range	°C		-40 to +125

* Values are provisional.

Note: Parameters values are not guaranteed and will differ from lot to lot. For specification writing, contact the Application Engineering Department.

Colour:	Grey*
Packaging:	20 lit pails - net weight 16 kg 200 lit drums - net weight 180 kg
Shelf life:	6 months after production date
Storage & Transport:	30°C maximum - no exposure to sunshine
Max. recommended compression :	70 %

* Colour may slightly vary from lot to lot, without affecting product performances.

Saint-Gobain Performance Plastics

Avenue du Parc 18
4650 Chaineux (Belgium)
Phone: +32/87 32 20 11
Fax: +32/87 32 20 51
sgppl.chaineux@saint-gobain.com



Dynafoam[®] is a registered trademark

The data and details in this leaflet were correct and up-to-date at the time of printing and are intended to provide information on our products and their possible applications. It is the user's responsibility to make sure he is in possession of the latest version of the product data sheet. This leaflet is not a specification and does not assure specific product characteristics or make reference to the suitability of the products for a definite application. Because Saint-Gobain cannot anticipate or control every application, user must test this product under individual application conditions. The application, the use and the conversion of this product are under the user's responsibility.