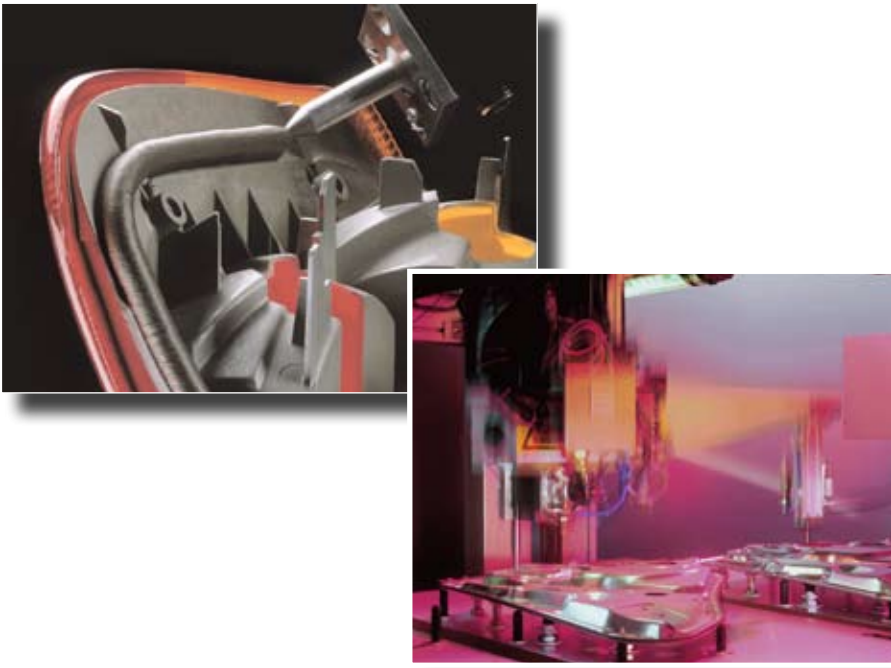


Dynafoam[®] 7440



DYNAFOAM[®] 7440 is a mono-component foam-in-place gasketing material containing polyether-based raw material, which is physically foamed with nitrogen and which reacts with the moisture to create, after curing, a thermoset elastomeric gasket.

DYNAFOAM[®] 7440 is intended for use as a water, dust, air and noise seal because of its semi closed-cell structure. DYNAFOAM[®] 7440 attains an efficient water seal at only 30% compression.

Its softness and conformability allows DYNAFOAM[®] 7440 to recover large tolerances during assembly and it avoids distortion of thin-wall plastics. Due to its low compression set, it is ideal for semi-permanent (serviceable) seals.

Other key advantages of using DYNAFOAM[®] 7440 are its superior physical properties: semi closed-cell structure preventing water absorption, excellent adhesion properties to a wide range of materials (polymers such as polypropylene, metal and coated surfaces), performance under extreme environmental conditions and resistance to sustained high temperatures.

Moreover, its high resistance to tear allows assembly of parts under difficult conditions. It allows e.g. sliding the part without tearing the gasket, even when this is compressed.

Its thixotropic behaviour allows 3-dimensional and upside-down applications. DYNAFOAM[®] 7440 holds its shape right out of the nozzle without sagging, even when applied on an incline or upside-down. DYNAFOAM[®] 7440 maintains a 0.65:1 height-to-width ratio, is usable for high diameter seamless gaskets, and can be extruded on three axes. 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
- 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[®] 7440 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 automation, DYNAFOAM[®] 7440 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[®] 7440 offers a repeatable process from cycle to cycle and thus, quality control is inherent with DYNAFOAM[®] 7440.

DYNAFOAM[®] 7440 is a non toxic material which does not require special ventilation to meet industry safety standards. DYNAFOAM[®] 7440 is free of cadmium, lead, chrome (VI), mercury and 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	200-240
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.

Specifications

DYNAFOAM[®] 7440 fulfills the following standards:

Daimler	DBL 5452
PSA	B65 4360
VW	TL848

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

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