

## B-1022 HFO

GENYK B-1022HFO/A-2732 is a two-component rigid polyurethane foam system specially formulated with hydrofluoro-olefin (HFO), the latest advancement in foam blowing agent technology. The HFO blowing agent used in B-1022HFO resin has a global warming potential (GWP) of 2, 99.8% lower than HFC blowing agents. HFO blowing agent is non-ozone-depleting and non-flammable.

This system is used to produce insulated panels, garage door panels and residential doors. It is designed for processing through low- or high-pressure component dispensing machine.

### LED BY COMMITMENT



#### PREMIUM PRODUCT

Genyk B-1022HFO has been tested and meets the requirements of “Code of U.S. Federal Regulation-Navigation Waters”. It is compliant with standard 183.114.



#### SUSTAINABILITY

With its outstanding thermal performance and a GWP of 2, HFO blowing agent is a balanced solution to today’s environmental and performance challenges in insulated foam applications.



#### LOCALLY REPRESENTED

Genyk is a Canadian manufacturer. Each region has local representation to offer the most knowledgeable service.

#### COMPONENT PROPERTIES

PROPERTIES	ISOCYANATE A-2732	RESIN B-1022HFO
Appearance	Brown Liquid	Amber liquid
Viscosity at 25°C	150 – 250 cps	280 - 400 cps
Specific Gravity at 25°C	1.24	1.11 – 1.15
Shelf Life	12 months	6 months
Ratio (volume)	100	100

#### REACTIVITY PROFILE

Cream Time (seconds)	25 - 30
Gel Time (seconds)	155 - 180
Tack Free Time (seconds)	250 - 290
Free Rise Density (lb/ft3)	1.90 – 2.10

#### TYPICAL PHYSICAL PROPERTIES

Physical Propertie	ASTM Method	Value
Density (in place) *	D 1622	2.5 lb/pi <sup>3</sup> (40 kg/m <sup>3</sup> )
Compressive Strength	D 1621	31 psi (213.6 kPa)
Water absorption	D2842	1.15%
Dimensional Stability	D2126 (7days, -25°C, ambient H.R)	+0.50%
	D2126 (7days, +80°C, ambient H.R)	+2.46%

Genyk recommends a core in-place density not less than 2.5 lb/ft<sup>3</sup>. This will optimize the physical properties.

### VARIATION OF GROSS BUOYANCY - CFR 33 183.114

Test	Requirement of 33CFR 183.114	Result
30-day gasoline vapor test	-5 % maximum	+0.10% - Compliant
30-day gasoline test	-5 % maximum	-0.09% - Compliant
30-day oil test	-5 % maximum	-0.83% - Compliant
30-day bilge cleaner test	-5 % maximum	-0.57% - Compliant

### VARIATION OF BUOYANCY PER UNIT OF VOLUME - CFR 33 183.114

Test	Requirement of 33CFR 183.114	Result
30-day gasoline vapor test	-5 % maximum	+0.13% - Compliant
30-day gasoline test	-5 % maximum	+0.42% - Compliant
30-day oil test	-5 % maximum	-0.83% - Compliant
30-day bilge cleaner test	-5 % maximum	-0.57% - Compliant

### PACKAGING

Genyk A-2732 is supplied in 227 kg drums and 1,250 kg totes. Genyk B-1022HFO is supplied in 225 kg drums and 1,125kg totes.



Genyk uses the highest-grade raw materials and state-of-the-art manufacturing facilities. The result is a durable and superior product.



Before handling these chemicals, please consult the Safety Data Sheet for the two components, that are available from Genyk.

### STORAGE CONDITIONS AND HANDLING

All materials should be stored in their original containers and away from heat and moisture, especially after the seals have been broken and the containers have been opened. Shelf life is 6 months for the resin and 12 months for the isocyanate when stored indoors at a temperature between 60°F (15°C) and 77°F (25°C) for the resin and 60°F (15°C) and 100°F (38°C) for the isocyanate. Storage below 60°F (15°C) may result in compound stratification of the B and/or crystalline formation in the A component. Temperatures above the maximum storage temperatures may decrease the shelf life. Containers should be opened carefully to allow any pressure build-up to be vented safely. Extensive venting of the B component may result in loss of blowing agent, higher-density foam and reduced yield. Temperatures below 60°F (15°C) will increased the viscosity of the components making them difficult to pump. Both components are adversely affected by water and humidity.

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