

B-5019HFO

TECHNICAL DATA SHEET

B-5019HFO / A-2732 is a two-component spray applied insulation polyurethane foam system, medium density **specifically formulated with hydrofluoro-olefin (HFO)**, the latest advancement in foam blowing agent technology. The **HFO blowing agent** used in B-5019HFO resin has a global warming potential (GWP) of 1, 99.9% lower than HFC blowing agents. **HFO blowing agent** is non-ozone-depleting and non-flammable. This system is an ASTM E-84 CLASS 1 Spray Foam System.

Low Global Warming Potential (GWP) Blowing Agent:

- With its outstanding thermal performance and a GWP of 1, HFO blowing agent is a balanced solution to today's environmental and performance challenges in insulated foam applications



Superior Foam Performance:

- Increases R-Value
- Improved thermal performance
- Proven nonflammability
- Requires no investment in plant equipment to meet flammability or other special concerns
- Straightforward and cost-effective transitions

| COMPONENT PROPERTIES | | |
|-------------------------|-------------------|-----------------|
| Properties | ISOCYANATE A-2732 | RESIN B-5019HFO |
| Appearance | Brown liquid | Amber liquid |
| Viscosity @ 25°C | 150 – 250 cps | 250 - 400 cps |
| Specific Gravity @ 25°C | 1.24 | 1.18 – 1.22 |
| Shelf Life | 12 months | 6 months |
| Mixing Ratio (volume) | 100 | 100 |

| REACTIVITY PROFILE | |
|---|-------------|
| Cream Time (seconds) | 0 - 1 |
| Gel Time (seconds) | 2 - 3 |
| Tack Free Time (seconds) | 4 – 5 |
| Free Rise Density (lb/ft ³) | 2.20 – 2.40 |

Laboratory results based on machine mixing (Graco E-30) at 110°F/1000psi. Properties shown below are to be used as a guide only and not intended for specification properties.

Resin B-5019 HFO

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| TYPICAL PHYSICAL PROPERTIES | | |
|-----------------------------|--|---|
| Physical Propertie | ASTM Method | Value |
| Density (in place) * | D 1622 | 2.20 – 2.40 lb/pi ³ |
| Compressive Strength | D 1621 | 36.0 psi |
| Dimensional Stability | D2126 (7days, -25°C, ambient R.H) D2126 (7days, +80°C, ambient R.H) D2126 (28 days +70°C,97% +-3% R.H) | +0.1 % +0.51 % +5.24 % |
| Tensile Strength | ASTM D1623 | 22.0 psi |
| Initial Thermal Resistance | ASTM C518 (50mm) | 2.57 K.m ² /W =R 14.8(7.4/in) |
| Aged Thermal Resistance | ASTM C518 (50 mm) | 2.40 k.m ² /W =R 13,8 (6.9/in) |
| Flame Spread Index | ASTM E-84 | 20 |
| Smoke Develop Index | ASTM E-84 | 300 |

ADDITIONAL INFORMATION

The service temperature of this foam is between -60°C and +85°C (-76°F and +185°F). When spraying this foam system, the sprayer should not exceed 51 mm (2 inches) per pass. Spraying thicker could result in a sudden combustion of the foam which can happen hours after the installation of the foam. As with any plastic insulation, this foam is combustible and must be protected by an approved thermal barrier (Building code of Canada or local standards).

| RECOMENDED PROCESSING CONDITIONS | | |
|---------------------------------------|-----------------------|---------------------------|
| Temperatures (Ambient & Substrate) | Spraying Temperatures | Minimum Spraying Pressure |
| -10 °C to +25°C (14 to 77 °F) | 35 – 46°C (95-115°F) | 5516 kPa (800 psi) |

| PACKAGING |
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| Genyk A-2732 is supplied in 227 kg drums and 1,250 kg totes. Genyk B-5019HFO is supplied in 225 kg drums and 1,125kg totes. |

| 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. |

| HEALTH AND PERSONNAL PROTECTION |
|---|
| Before handling these chemicals, please consult the Material Safety Data Sheets for the two components. Material Safety Data sheets on product components are available from Genyk Inc. |

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