

# B-5019

B-5019 is a two-component spray applied insulation polyurethane foam system, medium density. As a Class 1 polyurethane foam, the product is used in environments where fire and smoke control are required. This foam system meets regulatory requirements and passed the ASTM E84 class 1 test.

B-5019 is formulated without any ozone depletion substances. The product has a Global Warming Potential (GWP) of 1 - 99.9% lower than historical blowing agent. The product is also formulated with renewable and recycled content.

TYPICAL PHYSICAL PROPERTIES			
PHYSICAL PROPERTIES	ASTM Method	Value	
Density (in place) *	D1622	2.20 – 2.40 lb/ft <sup>3</sup>	35.27 - 38.43 kg/m <sup>3</sup>
Compressive Strength	D1621	36.0 psi	248 kPa
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	D1623	22.0 psi	151 kPa
Initial Thermal Resistance	C518 (50mm)	R 14.8 (7.4/in)	2.57 RSI
Aged Thermal Resistance	C518 (50 mm)	R 13.8 (6.9/in)	2.40 RSI
Flame Spread Index	E84	20	
Smoke Develop Index	E84	300	

REACTIVITY PROFILE	
Cream Time (seconds)	0 - 1
Gel Time (seconds)	2 - 3
Tack Free Time (seconds)	4 - 5
Free Rise Density (lb/ft <sup>3</sup> )	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.

COMPONENT PROPERTIES		
PROPERTIES	ISOCYANATE A-2732	RESIN B-5019
Appearance	Brown Liquid	Amber Liquid
Viscosity at 25°C	150 – 250 cps	250 - 400 cps
Specific Gravity at 25°C	1.24	1.18 – 1.22
Ratio (volume)	100	100



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.

PACKAGING AND STORAGE		
Additional information	ISOCYANATE A-2732	RESIN B-5019
Packaging	Drum: 227 kg / Tote: 1,250 kg	Drum: 225 kg / Totes: 1,125 kg
Storage temperature	59°F (15°C) and 95°F (35°C)	59°F (15°C) and 77°F (25°C)
Shelf Life	12 months	6 months
<p><b>General information:</b> 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. Storage below 59°F (15°C) may result in compound stratification of the B and/or crystalline formation in the A component and will increase the viscosity of the components making them difficult to pump. Temperatures above the maximum storage temperatures may decrease the shelf life. Extensive venting of the B component may result in loss of blowing agent, higher-density foam and reduced yield. Both components are adversely affected by water and humidity.</p>		

#### 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 50 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).

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