

# Elite 50

## Open Cell, Low Density Spray Polyurethane Foam

ELITE 50 is a low-density spray-applied semi-rigid polyurethane foam system insulation, uniquely distinguished by the utilization of on-site recaptured rainwater as blowing agent. The product complies with the International Code Council's AC377 standard, including class I rating per ASTM E84 fire testing. Boasting features such as easy sprayability, and consistent yield, ELITE 50 excels in providing efficient and eco-conscious thermal insulation and sound attenuation. The product is ideal for new construction and retrofit insulation of residential and commercial buildings.

### TYPICAL PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	STANDARD	RESULT
<b>Aged R-Value</b>	ASTM C 518	3.7 @ 1" 13 @ 3.5"
<b>Core Density</b>	ASTM D 1622	0.50 lb/ft <sup>3</sup>
<b>Tensile Strength</b>	ASTM D 1623	> 3 psi
<b>Water Vapour Transmission (permeance @ 3")</b>	ASTM E 96	12.9 perm
<b>Open Cell Content</b>	ASTM D 6226	> 95%
<b>Dimensional Stability (14 days 70°C, 97±3% RH)</b>	ASTM D 2126	- 3 %
<b>Air Leakage (75 Pa @ 1")</b>	ASTM E 2178	< 0.02 L/sm <sup>2</sup>

### FIRE PERFORMANCE CHARACTERISTICS

<b>Surface Burning max 4"</b>	ASTM E 84	Class1
<b>Flame Spread Index</b>		< 25
<b>Smoke Developed</b>		< 450
<b>Fire Test Standard</b>	AC 377 Appendix X	Meets Criteria With 5 mils wet DC-315
	NFPA 286	Under evaluation With 18 mils wet DC-315



**PREMIUM PRODUCT**

Genyk uses the highest-grade raw materials and state-of-the-art manufacturing facilities. Consistency is key, ensuring optimal results in every application.



**ECO-CONSCIOUS**

Elite 50 foam is formulated with recycled captured rainwater and plant-based materials, embodying Genyk's commitment to environmentally responsible practices as a standard.



**CERTIFIED QUALITY**

Genyk enforces thorough in-house quality controls. In addition, Elite 50 is tested and certified by **ICC-ES #ESR-5370**, and the AC 377 Appendix X fire testing.

**INSTALLATION GUIDELINES**

	Ambient Temperatures	Spray Temperatures	Recommended Spray Pressure
<b>ELITE 50</b>	32°F to 95°F	115°F – 135°F	1000 - 1400 psi

Processing conditions can vary depending on temperature, humidity, substrate, equipment, and other factors. It is the applicator's responsibility to process and apply Elite 50 within specification.  
Recommended thickness per pass is from 3 to 12 inches.  
The service temperature range is from -58°F to 176°F.

**COMPONENT PRODUCT SPECIFICATIONS**

PROPERTIES	A - PMDI ISOCYANATE	ELITE 50 RESIN
<b>Colour</b>	Brown Liquid	Amber liquid
<b>Viscosity at 25°C</b>	150 – 250 cps	150 – 450 cps
<b>Specific Gravity at 25°C</b>	1.22 – 1.25	1.08 – 1.15
<b>Shelf Life</b>	12 months	6 months
<b>Storage Temperature</b>	50°F – 100°F	50°F – 100°F
<b>Ratio (volume)</b>	100	100



Elite 50 works as both a thermal insulator and acoustical material. The product significantly reduces the transmission of ambient sound and vibration-related noise.



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

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