



Insulthane® Extreme HL

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Insulthane® Extreme is a 2lb medium density, HFO, closed-cell spray polyurethane foam insulation system that delivers industry leading r-values and performance. The spray-applied formula effectively seals off air gaps, working as a powerful insulator and vapor barrier. It's ideal for new construction or renovating existing structures, such as attics, garages, basements and crawlspaces.

Ultra-low Global Warming Potential

Insulthane® Extreme is formulated with an HFO blowing agent, resulting in an ultra-low GWP of 1.

Thermal Resistance

Thickness (inch)	R-Value (°F-ft ² -h/Btu)
1.0	7.6
2.0	15
3.5	26
4.0	30

Features



Big Savings

Reduce your energy expenses by up to 40%



Water Resistant

Helps reduce mold and mildew growth



Long-lasting

Does not deteriorate, sag or settle



Durable

Increases structural strength of walls

Physical Properties

Attribute	Test	Results
Density	ASTM D1622	2.2 lb/ft ³
Water Vapor Transmission	ASTM E96	0.83 perm @1"
Dimensional Stability ¹ (Volume Change after 7 days)	ASTM D2126	-4.46% @ 158°F & 97% RH
Tensile Strength	ASTM D1623	33 psi
Compressive Strength	ASTM D1621	26.4 psi
Air Permeance @ 75 Pa	ASTM E2178	0.002 L/s·m ²
Water Absorption (% Volume)	ASTM D2842	0.5%
Open Cell Content	ASTM D2856	2.5%
Hot Surface Performance	ASTM C411	194°F
Fungi Resistance	ASTM C1338	Pass, no growth
Re-Entry - Worker	10 AHC's	2 hours
Material Listing	Intertek	CCRR-0396
Color		Amber

Burn Characteristics

Attribute	Test	Results
Flame Spread	ASTM E84	10
Smoke Development	ASTM E84	300
Surface Burning Characteristics @ 4"	ASTM E84	Class 1 (A)
Ignition Barrier Uncoated	NFPA 286 Appendix X	Pass
DC 315 Thermal Barrier	NFPA 286	Pass
F10E Thermal Barrier		Pass
Commercial Fire Resistance	NFPA 285	Certified Compliant Systems ²

¹ Dimensional Stability tested without substrate
² See design details

Recycled Content

Each set of Insulthane Extreme contains approximately 2,500 recycled PET (Polyethylene Terephthalate) bottles. PET is a common consumer plastic that is converted to polyester polyols to formulate spray foam insulation.

