TECHNICAL DATA SHEET

Insulthane® Extreme

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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 (ASTM C518)

Thickness (inch)	R-Value (°F·ft²·h/Btu)
1.0	7.4
2.0	14
3.5	25
4.0	29

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 (Nominal)	ASTM D1622	2 lb/ft³
Water Vapor Transmission	ASTM E96	0.83 perm @1"
Dimensional Stability[i] (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·m²
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) Re-occupancy	10 ACH	1 hour 2 hours
Material Listing	Intertek	CCRR-0396
Color	-	Cream

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	AC 377 Appendix X	Pass
DC 315 Thermal Barrier	NFPA 286	Pass
F10E Thermal Barrier	NFPA 286	Pass
Commercial Fire Resistance	NFPA 285	Certified Compliant Systems[ii]

[i] Dimensional Stability tested without substrate
[ii] 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.

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