INSULRAP™ JB

PRODUCT DATA SHEET




Insulrap™ JB is a self-adhesive multi-layer white PET/FOIL/PET zero perm membrane designed specifically for LNG and Cryogenic insulation systems. The product is constructed of a proprietary Polyguard butyl compound, which is a peel and stick self-sealing with excellent low temperature adhesion and flexibility.

Insulrap JB is designed specifically for Cryogenic insulation systems as an integral primary vapor barrier. A 'PERFECT BARRIER' having a perm rating of 0.0000 perms; puncture resistance of 80 PSI, and elongation of 43%.

Insulrap JB has been tested for cold cyclical application on LNG type installations.

Insulrap JB is available in 4"x50', 23" and 35" x 75'rolls. All material should be stored in a cool, dry place and kept from contact with the ground and protected from weather at all times. During cold weather, it is recommended that materials be stored in heated buildings between 70° and 80°F. Do not store above 130°F.

INSULRAP JB is a waterproofing or vapor-proofing membrane only. ***DO NOT USE AS A SUBSTITUTE FOR BANDING OR MECHANICAL FASTENING OF INSULATION***; use strapping tape or banding to secure the insulation on the pipe.

Install product using a minimum 2" longitudinal and circumferential lap with the water shed in the down position. Circumferential laps vary depending on the pipe size. Contact your representative for details.

Solvent-based vapor stops, joint sealers and adhesives have the potential to degrade the vapor barrier membrane if applied and not allowed to dry adequately so that solvents can be released to the atmosphere. Please follow the recommendations of the joint sealer, vapor stop or adhesive manufacturer.

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INSULRAP™ JB - TECHNICAL DATA

Property	Test Method	Typical Results	Metric
Product Thickness	ASTM D 1000	47.3 MIL	1.2 mm
Butyl Thickness	ASTM D 1000	44.9 MIL	1.1 mm
Film Thickness/PET/FOIL/PET	ASTM D 1000	2.4 MIL	0.1 mm
Elongation to Break	ASTM D 412	43.0%	43.0%
Overlap Adhesion @ 77F	ASTM D 1000	19.2 lb/in width	3.36 N/m width
Overlap Adhesion @ 43F	ASTM D 1000 (modified)	17.05 lb/in width	2.99 N/m width
Tensile Strength	ASTM D 1000 ASTM D638 (modified)	M - 716 PSI T - 835.9 PSI	M - 4936.65 kpa T - 5763.33 kpa
Elongation	ASTM D638 (modified)	M-75.4% T-86.6%	M-75.4% T-86.6%
Water Vapor Transmission (perms @ 77°F)	ASTM E 96 METHOD E	0.00000 Perm	0.00 ng/Pa-s-m
Puncture Resistance	ASTM E 154	80.8 lbs.	359.4 N
Mold and Mildew Resistance	ASTM C1338	no growth of organisms	no growth of organisms
Dimensional Stability	ASTM D1204 @ 150°F (65°C)	does not exceed 0.25% change	does not exceed 0.25% change
Application Temperature	Minimum recommended	41°F	5°C
Low Service Temperature Limit	Minimum	-40°F	-40°C
High Temperature Limit	Maximum	+160°F	+71°C
Chemical Analysis	ASTM C795	Pass	Pass
Flame Spread	ASTM E-84	0 Flame Spread	0

Insulrap™ JB is an integral component in ***Polyguard's*** Ultimate Corrosion Proof, Vapor Proof Insulation System