

TDS TECHNICAL DATA SHEET



ISI BUILDING PRODUCTS®
866.698.6562 / WWW.ISIBP.COM



1 PRODUCT NAME

PRODUCT NAME: Insul-Barrier®
Insulated Vapor Barrier

2 MANUFACTURER

ISI BUILDING PRODUCTS

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3 PRODUCT DESCRIPTION

3.1 BASIC USE

Insul-Barrier is a blanket insulation/vapor barrier designed to provide a thermal break and moisture barrier in crawl spaces. insul-barrier can also reduce condensation, mold and degradation by controlling water vapor migration.

3.2 COMPOSITION & MATERIALS

Insul-Barrier is a multi-layer blanket insulation. Insul-Barrier is manufactured using cross woven polyethylene, high density closed-cell foam, a layer of high density polyethylene bubble and reflective aluminum. These layers combine to provide consistent thermal and moisture protection.

3.3 SIZE

Standard Size: 4' x 25'

3.4 WEIGHT

10 lbs. per 100 sq. ft.

4 TECHNICAL DATA

ASTM C 1371 Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emisometers

ASTM C 518-02 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus

ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials

ASTM E 1643 Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs

ASTM D 412-98 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension

ASTM D 3575 Standard Test Methods for Flexible Cellular Materials Made From Olefin Polymers

ASTM D 751 Standard Test Methods for Coated Fabrics

ASTM D 1922 Standard Test Method for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method

5 INSTALLATION

All installation instructions on architectural and/or structural drawings should be reviewed and followed. Detailed installation instructions can be obtained by calling our corporate office at 866.698.6562 or online at www.isibp.com.

6 AVAILABILITY AND COST

Insul-Barrier is sold through construction supply houses across the United States and Canada.

Insul-Barrier current cost information can be obtained by calling our corporate sales office at 866.698.6562.

7 WARRANTY

Warranty information can be obtained by calling ISI Building Products corporate office at 866.698.6562 or online at www.isibp.com.

9 TECHNICAL SERVICES

Technical information and detailed test results can be obtained by calling ISI Building Products toll free at 866.698.6562.

8 MAINTENANCE

Requires no maintenance once installed.

10 FILING SYSTEMS

Additional information can be obtained by calling our corporate office at 866.698.6562 or online at www.isibp.com.

PROPERTIES

TEST METHOD

RESULTS

UNIT WEIGHT	N/A	10 LBS./100 SQ. FT.
R-VALUE PERFORMANCE	ASTM C 1371	**SEE BELOW
TENSILE STRENGTH & ELONGATION (BUBBLE PACK)	ASTM D 412-98	136 PSI
TENSILE STRENGTH (CROSS WOVEN POLYETHYLENE)	ASTM D 751 (GRAB)	45 LBF/IN.
COMPRESSION SET	ASTM D 3575-00	4.3%
COMPRESSION SET	ASTM D 3575-10-16	3.2%
BURSTING STRENGTH (BUBBLE PACK)	ASTM D 751-00 (BALL BURST)	95.1 LBF
BURSTING STRENGTH (BUBBLE PACK)	ASTM D 751-73 (MULLEN)	90 PSI
TEAR STRENGTH (CROSS WOVEN POLYETHYLENE)	ASTM D 1922 (TONGUE TEAR)	28 LBS. (WARP) 33 LBS. (FILL)
SMOKE DEVELOPED INDEX	ASTM E 84	20 SDI (CLASS A)
MAXIMUM USE TEMPERATURE MINIMUM USE TEMPERATURE	N/A	180° F -60° F
WATER VAPOR PERMEANCE	ASTM E 96	.002 PERMS CLASS A

R-VALUE PERFORMANCE:

INSUL-BARRIER IS COMPOSED OF REFLECTIVE POLYETHYLENE, HIGH-DENSITY BUBBLE PACK AND HIGH-DENSITY CLOSED CELL FOAM. THE TWO OUTSIDE POLYETHYLENE SKINS PROTECT THE INTERIOR INSULATION MATERIALS AS WELL AS PROVIDE EXCELLENT MOISTURE PROTECTION. INSUL-BARRIER IS DESIGNED TO SEPARATE DURING INSTALLATION. R-VALUES MAY INCREASE OR DECREASE SLIGHTLY DEPENDING ON AIRSPACE. FOLLOW MANUFACTURER'S INSTRUCTIONS TO RECEIVE MAXIMUM R-VALUE BENEFIT. INSUL-BARRIER AND THE TOTAL WALL ASSEMBLY HAVE BEEN INDEPENDENTLY TESTED BY A 3RD PARTY TESTING FACILITY FOR THERMAL RESISTANCE VALUES IN BOTH SUMMER AND WINTER CONDITIONS. THE VALUES BELOW ARE AN AVERAGE OF THE SUMMER AND WINTER RESULTS.

INSUL-BARRIER: MATERIAL - R 8.73 WALL SYSTEM - R 12

** THE PRECISION OF THIS TESTING IS ESTIMATED TO BE 2.5% (ASTM C 518-10, SECTION 10.8). THE PRECISION FOR THIS COMPOSITE WITH INCLUDED AIR SPACE IS ESTIMATED TO BE 15%, IR EMITTANCE FOR THE EXTERIOR SURFACE OF THE PANEL THAT FORMS THE ENCLOSED AIR SPACE HAS BEEN DETERMINED IN ACCORDANCE WITH ASTM C 1371.

NOTE:

TO THE BEST OF OUR KNOWLEDGE, THE SPECIFICATION CHART LISTS TYPICAL PROPERTY VALUES AND ARE INTENDED AS GUIDES ONLY, NOT AS SPECIFICATION LIMITS. ISI BUILDING PRODUCTS MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, NO GUARANTEE OF SATISFACTORY RESULTS FROM RELIANCE UPON CONTAINED INFORMATION OR RECOMMENDATIONS AND DISCLAIMS ALL LIABILITY FOR RESULTING LOSS OR DAMAGE.

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