

SARAN™ 560-CX Vapor Retarder Film

SARAN™ 560-CX Vapor Retarder Film is composed of a film of the barrier polymer polyvinylidene chloride (PVDC) coextruded with other specialty polymers that provide strength and support. Working together, the portions of this coextruded film combine to create a vapor retarder and jacketing material for mechanical insulation systems that is durable, flexible and has excellent resistance to water vapor penetration. Designed specifically for high vapor drive applications, SARAN 560-CX Film helps prevent water absorption and strongly resists moisture vapor drive into the insulation. A permeance rating of 0.01 perms meets or exceeds the strictest industry requirements for vapor retarders in cold service.

SARAN 560-CX Vapor Retarder Film is not a known nutrient source for mold or mildew.

Applications

SARAN 560-CX Vapor Retarder Film is a high-performance, cost effective vapor retarder used in many pipe insulation applications.

Typical applications for SARAN 560-CX Film include:

- Food and beverage facilities
- Chilled water piping and HVAC systems
- Transport pipelines
- Chemical condensation tanks
- Cold storage systems
- Refrigerated transport
- Pharmaceutical plants
- Petrochemical plants
- Cryogenic systems, including liquefied natural gas (LNG)

ITW can provide general guidelines and recommendations on many typical applications for SARAN 560-CX Vapor Retarder Film. Call 1-800-231-1024 or contact your local ITW representative for details.

SARAN Films are FDA and USDA compliant.

SIZE

SARAN 560-CX Vapor Retarder Film is supplied either factory applied on straight lengths of TRYMER* or XPS PIB insulation or in easy-to-use rolls for field application.

Width: 35.5" (90 cm)
Length: 250' (78 m)

PHYSICAL PROPERTIES

SARAN 560-CX Vapor Retarder Film exhibits the properties and characteristics indicated in Table 1 when tested as represented.

Consultation with local code officials or design engineers/specifiers is recommended before application.

Table 1

| Physical Properties ⁽¹⁾ of SARAN 560-CX Vapor Retarder Film | |
|---|----------------------------|
| Property and Test Method | Value |
| Thickness, ASTM D374, mils, avg | 6 |
| Yield, ft ² /lb, calculated | 26.1 |
| Permeance ⁽²⁾ , ASTM E96, perm | 0.01 |
| Water Vapor Transmission Rate, ASTM F1249, g/100in ² • 24 hr at 100°F and 90% RH | 0.042 |
| Ultimate Tensile Strength, ASTM D882, lb/in ² | |
| MD | 1,960 |
| TD | 1,820 |
| Ultimate Tensile Strength, ASTM D882, lb/in width | |
| MD | 12 |
| TD | 11 |
| Ultimate Elongation, ASTM D882, % | |
| MD | 228 |
| TD | 150 |
| 2% Secant Modulus, ASTM D882, lb/in ² | |
| MD | 70,800 |
| TD | 70,500 |
| Mullen Burst Strength, ASTM D774, lb/in ² | 83 |
| Unrestrained Shrink, % in 100°C Air | |
| MD | <1 |
| TD | <1 |
| Surface Burning Characteristics ⁽³⁾ , ASTM E84 | |
| Flame Spread | = 25 |
| Smoke Developed | = 50 |
| Service Temperature Limits ⁽⁴⁾ , °F (°C) | -40 to 250 (-40 to 121) |
| Color | White |

⁽¹⁾ Data shown are typical values obtained from representative samples. This data may be used as a guide for design purposes, but should not be construed as specifications.

⁽²⁾ 1 perm = 1 gr/hr/ft²/in•Hg @ 73°F, 50% R.H.

⁽³⁾ This numerical flame spread data is not intended to reflect hazards presented by this or any other material under actual fire conditions.

⁽⁴⁾ Service temperature limits is defined as the temperature to which the jacket or coating may be subjected after application over insulation. It does not refer to the operating temperature of the equipment, vessel or pipe. (Source: National Insulation Association)

For maximum tape flexibility during installation, it is recommended that SARAN Film products be installed at ambient temperatures above 24°F (-4°C).

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Installation

SARAN 560-CX Vapor Retarder Film is compatible with all current installation methods for vapor retarder films. It can be installed at ambient temperatures as low as 0°F (-18°C). For maximum film flexibility during installation, it is recommended that SARAN Film products be installed at ambient temperatures above 24°F (-4°C). SARAN 560-CX Vapor Retarder Film has service temperature limits of -40°F to 250°F (-40°C to 121°C).

Because of the critical technical design aspects of many of the applications of SARAN 560-CX Vapor Retarder Film, ITW recommends that qualified designers or consultants design the total system. Detailed installation guidelines for SARAN Vapor Retarder Film and Tape products are available at www.itwinsulation.com.

Availability

SARAN 560-CX Vapor Retarder Film is distributed through ITW's extensive Authorized Fabricator Network. For more information, call: 1-800-231-1024

Technical Services

ITW can provide technical information to help address questions when using SARAN 560-CX Vapor Retarder Film. Technical personnel are available at: 1-800-231-1024

- **For Technical Information: 1-800-231-1024**
- **For Sales Information: 1-800-231-1024**
- ITW Insulation Systems
- 1370 East 40th Street, Building 7, Suite 1
Houston, TX 77022-4104
- www.itwinsulation.com

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COMBUSTIBLE: Protect from high heat sources. Local building codes may impose additional requirements. For more information, call ITW at 1-800-231-1024 or contact your local building inspector.

Building and/or construction practices unrelated to insulation could greatly affect moisture and the potential for mold formation. No material supplier including ITW can give assurance that mold will not develop in any specific system.