

SARAN™ 560 Vapor Retarder Film

SARAN™ 560 Vapor Retarder Film is composed of biaxially oriented polyvinylidene chloride (PVDC) that creates a durable and flexible jacketing material for mechanical insulation systems. Designed specifically for high vapor drive applications, SARAN 560 Film helps prevent water absorption and 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 Vapor Retarder Film is not a known nutrient source for mold or mildew.

Applications

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

Typical applications for SARAN 560 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 540 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 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 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 Vapor Retarder Film	
Property and Test Method	Value
Thickness, ASTM D374, mils, avg	6
Yield, ft ² /lb, calculated	19.3
Permeance ⁽²⁾ , ASTM E96, perm	0.01
Ultimate Tensile Strength, ASTM D882, lb/in ²	
MD	10,300
TD	15,300
Ultimate Elongation, ASTM D882, %	
MD	145
TD	79
2% Secant Modulus, ASTM D882, lb/in ²	
MD	77,300
TD	56,000
Mullen Burst, ASTM D774, lb/in ²	174
Puncture Resistance, TAPPI T803, ASTM D781, Beach units	273/199
Unrestrained Shrink, 100°C Air	
MD	8
TD	6
Surface Burning Characteristics ⁽³⁾ , ASTM E84	
Flame Spread	5
Smoke Developed	25
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 when applied over insulation. It does not refer to the operating temperature of the equipment, vessel or pipe. (Source: National Insulation Association)

For maximum film 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 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 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 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 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 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 require a protective or thermal barrier. For more information, consult MSDS, 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.

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