



Last Revision Date: February, 2021

# **Technical Data Sheet**

VentureClad™ Insulation **Jacketing** System 1577CW-WME





English

Regulatory Info/SDS

## **Product Description**

 $3M^{\text{TM}}$  VentureClad Insulation Jacketing System is a zero permeability, all weather, multi-layered laminate coated with an aggressive cold weather acrylic adhesive. Superior resistance to weathering, fungi, UV and extreme environmental conditions. Designed for use as a vapor barrier for insulation cladding and jacketing applications. Available in both flat and embossed.

## **Product Features**

- Superior adhesion in cold or hot and humid conditions temperatures.
- Bonds and seals at temperatures as cold as -10°F (-23°C).
- Zero permeability vapor barrier for insulation cladding and jacketing applications
  High puncture and tear resistant ensures longevity and durability
- Flexible and strong.
- Cuts and installs easily on-site, no special tools required.
  Available in multiple colors.

#### **Technical Information Note**

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

## **Typical Physical Properties**

Attribute Name	Test Method	Value
Color		White
Embossed		Yes
Puncture		194 N (44 lb)
Total Tape Thickness	ASTM D3652	0.23 mm (9 mil)
Water Vapor Transmission	ASTM E96	0 US Perms

## **Typical Performance Characteristics**

Attribute Name	Test Method	Dwell Time	Temperature	Value
180° Peel Adhesion	ASTM D3330	1 min	22 °C (72 °F)	9 N/cm (82 oz/in) <sup>1</sup>
Tensile Strength				175 N/cm (100 lb/in)
Emittance				0.8

<sup>1 12</sup> in/min (300 mm/min)

Attribute Name	Value
Long Term Temperature Resistance	120 °C (248 °F) ¹
Minimum Long Term Temperature Resistance	-40 °C (-40 °F) ¹

Partially resistant

## Typical Environmental Characteristics

#### **Chemical and Environmental Exposure**

Acids	Acetic acid (all concentrations)	Resistant
	50% formic acid	Resistant
	10% hydrochloric acid	Resistant
	30% hydrochloric acid	Partially resistant
M™ VentureClad™ In	sulation Jacketing%system3557RCW-MMErid aEnglish	n-USResistant
	10% nitric acid	Resistant
	65% and 100% nitric acid	Not resistant
	30% and 85% phosphoric acid	Resistant

20% sulphuric acid

<sup>&</sup>lt;sup>1</sup> Long Term (day, weeks)

\*Chemical resistance info based in part on third party test data of the product backing.

# **Environmental Resistance**

Excellent

# **Certifications/Standards**

# Certifications

Product	1577CW	1577CW-E	1577CW-WM	1577CW-WM
ASTM E84 Flame/Smoke Rating			25/45	25/45
UL723 Classified Flame/Smoke Rating (UL file #R10984)	25/25	25/25	25/25	25/25
CAN/ULC S102 Classification Flame/Smoke Rating	25/25	25/25	25/25	25/25
Meets FDA Compositional requirements for indirect food contact (21 CFR 175.105 and 21 CFR 175.125; FDA: Indirect Food Additives: Adhesives and Components of coatings)			х	х
Approved by Canadian Food Inspection Agency for use in food processing facilities as vapor barrier for insulation cladding and jacketing			Х	х
Contains Mold Inhibiting Agents	Χ	х		
Passes ASTM C1338 Fungi Resistance Testing	х	х		
Passes ASTM C1775 Specification or Laminate Protective Jacketing or Outdoor Applications	Х	х		
U.S. Coast Guard Approval	Х	×	х	х
IMO Resolution A653 (16)	Х	Х	х	х
IMO Resolution MSC61 (67) Annex 2 IMO Resolution MSC 61 (67) Annex 1 Part 2 and Annex 2	х	х	х	х
BS476 parts 6 & 7 Class "O"	х	х	х	Х
DIN 4102-1	Х	х		
SANS 10177 Opart 3 Class 1	Х	х		
NYC MEA	Х	Х		
Meets CINI 3.3-12 Requirement	χ	х		

#### Storage and Shelf Life

Store in a clean, dry place. Temperature of 40-80°F (4-26°C) and 40 to 50% relative humidity are recommended. To obtain best performance, use this product within 24 months from date of manufacture.

#### **Information**

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#### **ISO Statement**

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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