



# Technical Data Sheet

## 3M™ VentureClad™ 1579GCW-EMJ Insulation Jacketing Tape



[Product Details](#)



[Regulatory Info/SDS](#)

### Product Description

3M™ VentureClad™ Insulation Jacketing System is a heavy duty, zero permeability, all weather, multi-layered laminate coated with an aggressive cold weather acrylic adhesive. Excellent resistance to weathering, 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

- Excellent adhesion in cold or hot and humid conditions
- Aggressive acrylic adhesive offers instant adhesion in temperatures as low as -10°F (-23°C)
- Zero permeability vapor barrier for insulation cladding and jacketing applications
- Reinforced for very high puncture and tear resistance to ensure long life and durability
- Flexible and strong
- Cuts and installs easily on-site, no special tools required

### 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		Silver
Embossed		No
Total Thickness	ASTM D3652	.38 mm (15 mil)
Puncture		245 N (55 lb)
Water Vapor Transmission	ASTM E96	0 US Perms

### Typical Performance Characteristics

Attribute Name	Test Method	Dwell Time	Temperature	Test Condition	Value
180° Peel Adhesion	ASTM D3330	1 min	22 °C (72 °F)		10.6 N/cm (100 oz/in) <sup>1</sup>
Tensile Strength	ASTM D882			Machine Direction	14.2 N/cm (130 lb/in)

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

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

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

## Typical Environmental Characteristics

### Chemical and Environmental Exposure

Acids	Acetic acid (all concentrations) 50% formic acid 10% hydrochloric acid 30% hydrochloric acid 10% and 35% hydrofluoric acid 10% nitric acid 65% and 100% nitric acid 30% and 85% phosphoric acid 20% sulphuric acid Sulphur dioxide gas, dry 80% and above sulphuric acid	Resistant Resistant Resistant Partially resistant Resistant Resistant Not resistant Resistant Partially resistant Resistant Not resistant
Aldehydes	Acetaldehyde Formaldehyde	Resistant Resistant
Aqueous Alkaline Solutions	Ammonium hydroxide Calcium hydroxide Sodium hydroxide	Not resistant Partially resistant Not resistant
Chlorinated Hydrocarbons	Carbon tetrachloride Chlorinated biphenyls Chloroform Trichloroethylene	Partially resistant Partially resistant Resistant Resistant
Esters	Ethyl acetate	Resistant
Hydrocarbons	Aliphatic hydrocarbons Benzene Gasoline (petrol) Mineral oils Toluene Xylene	Resistant Resistant Resistant Resistant Resistant Resistant
Miscellaneous Substances	Chlorine Hydrogen peroxide Oxygen Water*	Resistant Resistant Resistant Resistant
Other Organic Solutions	Acetone Diethyl ether Nitrobenzene Phenol	Resistant Resistant Not resistant Not resistant
Salt Solutions	Alkaline carbonates Bichromates Cyanides Fluorides	Resistant Resistant Resistant Resistant

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

### Environmental Resistance

Excellent

## Certifications/Standards

### Certifications

Product	1579GCW-EMJ	15779GCWE-EMJ	1579GCW-WM	1579GCW-WME
ASTM E84 Flame/Smoke Rating	10/50		20/25	20/25
UL723 Classified Flame/Smoke Rating (UL file #R10984)				
CAN/ULC S102 Classification Flame/Smoke Rating			25/25	
Meets FDA Compositional requirements for indirect food contact (21 CFR 175.105 and 21CFR175.125; FDA: Indirect Food Additives: Adhesives and Components of coatings)	X	X	X	X
Agency for use in food processing facilities as vapor barrier for insulation cladding and jacketing	X	X	X	X
Contains Mold Inhibiting Agents	X	X		
Passes ASTM C1338 Fungi Resistance Testing	X	X	X	X
U.S. Coast Guard Approval	X	X	X	X
IMO Resolution A653 (16)	X	X	X	X
IMO Resolution MSC61 (67) Annex 2 IMO Resolution MSC 61 (67) Annex 1 Part 2 and Annex 2	X	X	X	X
BS476 parts 6 & 7 Class "O"			X	X

### 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 Specialties Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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