



Last Revision Date: February, 2021

# **Technical Data Sheet**

VentureClad™ Insulation **lacketing** System 1579GCW-WME





English

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. Superior 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**

- Superior 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 vary high puncture and tear resistance to ensure long life 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		253 N (57 lb)
Thickness		0.4 mm (16 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)	126 oz/in <sup>1</sup>
Elongation at Break				64 %
Toncilo Ctronath				322.233312 N/cm
Tensile Strength				(184 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) <sup>1</sup>
Minimum Long Term Temperature Resistance	-40 °C (-40 °F) ¹

Long Term (day, weeks)

### **Typical Environmental Characteristics**

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

Acids	Acetic acid (all concentrations)	Resistant
M™ VentureClad™ Insulation lacke	ting systemis 5796 CW-WME   English	(Resistant
, , , , , , , , , , , , , , , , , , , ,	10% hydrochloric acid	Resistant
	30% hydrochloric acid	Partially resistant
10% and 35% hydrofluoric acid		Resistant
	10% nitric acid	Resistant

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

#### **Environmental Resistance**

Excellent

# **Certifications/Standards**

### Certifications

Product	1579GNA	1579GCW	1579GCW-E	1579GCW-WM	1579GCW-WME
Color	Natural Aluminum	Natural Aluminum	Natural Aluminum	White	White
Embossed	No	No	Yes	No	Yes
Product Thickness	12.5 mils (0.32 mm)	15 mils (0.38 mm)	16 mils (0.40 mm)	15 mils (0.38 mm)	16 mils (0.40 mm)
Peel Adhesion	NA	87 oz/in (24 N/25 mm)	73 oz/in (20 N/25 mm)	102 oz/in (28 N/25 mm)	126 oz/in (35 N/25 mm)
Tensile Strength	155 lb/in (690 N/25 mm)	155 lb/in (690 N/25 mm)	149 lb/in (663 N/25 mm)	184 lb/in (818 N/25 mm)	184 lb/in (818 N/25 mm)
Elongation	35%	70%	60%	64%	64%
Chemical Resistance	Good	Good	Good	Excellent	Excellent
WVTR	0.00 perm				
Service Temperature	-94°F to 300°F (-70°C to 149°C)	-40°F to 300°F (-40°C to 149°C)	-40°F to 300°F (-40°C to 149°C)	-40°F to 248°F (-40°C to 120°C)	-40°F to 248°F (-40°C to 120°C)
Puncture	41 lbs (182 N)	47 lbs (210 N)	49 lbs (218 N)	57 lbs (252 N)	57 lbs (253 N)
Emmitance	0.03	0.03	0.03	8.0	0.8
Passes ASTM C1775 Specification for Laminate Protective Jacketing for Outdoor Applications		х	х		
ASTM E84 (Flame / Smoke Rating)		20 / 15	20 / 15	20 / 25	20 / 25
UL723 Classified Flame Smoke Rating (UL file #R10984)		25 / 60			
U.S. Coast Guard approval	х	х	х	х	×
IMO Resolution MSC.307(88) Annex1, Part 5 and Part 2	X	х	×	X	х
IMO Resolution MSC 61 (67) Annex 1: Part 5	х	x	х	x	x

# Storage and Shelf Life

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

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### **ISO Statement**

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