



# VentureClad™ Insulation Jacketing Tapes

## 1579 Series:

1579GCW • 1579GCW-E • 1579GCW-WM • 1579GCW-WME

Technical Data

February, 2015

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**Product Description** 3M™ VentureClad™ Insulation Jacketing System is a zero permeability, multi-layered, reinforced laminate coated with an aggressive cold weather acrylic adhesive with 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 as well as without adhesive.

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**Features**

- Bonds and seals over a broad range of temperatures.
- Zero permeability, absolute vapor barrier for insulation cladding and jacketing applications.
- High puncture and tear resistance.
- Cuts and installs easily on-site, no special tools required.
- Cold weather acrylic adhesive applies easily at temperatures as cold as -10°F (-23°C)

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### Technical Information

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

Product	1579GCW	1579GCW-E	1579GCW-WM	1579GCW-WME
Adhesive or non adhesive	Adhesive	Adhesive	Adhesive	Adhesive
Color	Natural Aluminum	Natural Aluminum	White	White
Embossed	No	Yes	No	Yes
Product Thickness (excluding liner)	15.0 mils (0.38 mm)	24.0 mils (0.61 mm)	17.5 mils (0.45 mm)	24.0 mils (0.61 mm)
Peel Adhesion (minus 20 dwell)	100 oz/in (27.7 N/25 mm)	100 oz/in (27.7 N/25 mm)	100 oz/in (27.7 N/25 mm)	100 oz/in (27.7 N/25 mm)
Shear Adhesion	>72 hrs @ 2.2 psi (>72 hrs @ 15.2 kPa)	>72 hrs @ 2.2 psi (>72 hrs @ 15.2 kPa)	>72 hrs @ 2.2 psi (>72 hrs @ 15.2 kPa)	>72 hrs @ 2.2 psi (>72 hrs @ 15.2 kPa)
Tensile Strength	140 lb/in (616 N/25 mm)	140 lb/in (616 N/25 mm)	130 lb/in (588 N/25 mm)	130 lb/in (588 N/25 mm)
Elongation	35%	35%	50%	50%
Chemical Resistance	Good	Good	Better	Better
WVTR	0.00 perm	0.00 perm	0.00 perm	0.00 perm
Service Temperature	-94°F to 248°F (-70°C to 120°C)	-94°F to 248°F (-70°C to 120°C)	-94°F to 248°F (- 70°C to 120°C)	-94°F to 248°F (-70°C to 120°C)
Puncture	68 lbs (302 N)	68 lbs (302 N)	58 lbs (257 N)	58 lbs (257 N)
Emittance	0.03	0.03	0.8	0.8
ASTM E84 (Flame / Smoke Rating)	10 / 10	10 / 10	20 / 30	20 / 30
U.S. Coast Guard approval	X	X	X	X
IMO Resolution A653 (16)	X	X	X	X
IMO Resolution MSC 61 (67) Annex 1 Part 5 and Annex 2 IMO Resolution MSC 61 (67) Annex 1 Part 2 and Annex 2	X	X	X	X

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**Storage** Store in a clean, dry place. Temperature of 40-80°F (4-26°C) and 40 to 50% relative humidity are recommended.

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**Shelf Life** To obtain best performance, use this product within 12 months from date of manufacture

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**Technical Information** The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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ISO 9001

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



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