



Technical Data Sheet

3M™ Venture Tape™ High Performance
Double Coated Polyester Film Tape 514CW



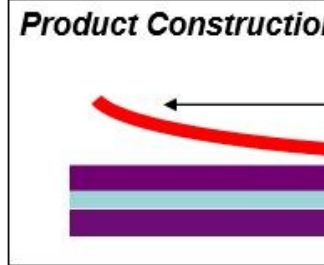
[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ Venture Tape™ High Performance Double Coated Polyester Film Tape 514CW is coated on both sides with a versatile acrylic pressure sensitive adhesive (PSA). A versatile, cost effective tape specifically designed for demanding bonding applications, 3M™ Venture Tape™ 514CW provides permanent bond on foams, plastics, metals and composite materials subjected to a broad range of environmental conditions. Ideal for use as a paper splicing tape.



Product Features

- High performance tape product bonds to a wide variety of metals, high surface energy plastics, and composite materials.
- Excellent UV and temperature resistance.
- Performs well at high and low temperatures.
- Excellent peel, tack and shear.

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	Test Condition	Value
Color			Clear
Adhesive Carrier			PET
Adhesive Thickness	PSTC-133	Faceside	0.04 mm (1.5 mil)
Adhesive Thickness	PSTC-133	Backside	0.04 mm (1.5 mil)
Total Tape Thickness	ASTM D3652		0.09 mm (3.5 mil)
Liner			White, 55# SCK

Typical Performance Characteristics

Dwell Time: 20 min
Test Method: PSTC-101

Attribute Name	Value
Peel Adhesion (Backside)	11.1 N/25.4mm (40 oz/in)
Peel Adhesion (Faceside)	11.1 N/25.4mm (40 oz/in)

Attribute Name	Test Method	Value
Shear Adhesion	PSTC-107	>24 h @ 15.2 kPa
Shear Adhesion	PSTC-107	>24 h ¹
Elongation	PSTC-131	100 %
Tensile Strength	PSTC-131	33.9 N/25.4mm (7.5 lb/in)

¹ @2.2 psi

Attribute Name	Value
Long Term Temperature Resistance	149 °C (300 °F) ¹
Minimum Long Term Temperature Resistance	-40 °C (-40 °F) ¹

¹ Long Term (day, weeks)

Typical Environmental Performance

Attribute Name	Value
UV Resistance	Excellent

Storage and Shelf Life

It is suggested that products are stored at room temperature conditions of 70°F (21°C) and 50% relative humidity. If stored properly, product retains its performance and properties for 18 months from date of manufacture. Note: The shelf life may be shortened if the original packaging is not properly sealed or stored in an environment with high temperatures or humidity

Available Sizes

Attribute Name	Value
Product Size	• Master rolls: 54" x 250 LY

Precautionary Information

For information please contact your local 3M Office. www.3M.com

Automotive Disclaimer

Select Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

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ISO Statement

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3M
Industrial Adhesives and Tapes Division
3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550

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