

# Technical Data Sheet

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

### 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.

<https://multimedia.3m.com/mws/media/2069649O/image-392-jpg.jpg>




### 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

Property	Values	Additional Information
Adhesive Carrier	PET	
Color	Clear	
Liner	White, 55# SCK	
Total Tape Thickness (mil)	3.5 mil	View 
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.09 mm	View 
Test Method: ASTM D3652		
Adhesive Thickness	0.04 mm	View 
Test Method: PSTC-133		

Test Name: Backside

Adhesive Thickness	1.5 mil	View 
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Test Method: PSTC-133

Test Name: Backside

Adhesive Thickness	0.04 mm	View 
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Test Method: PSTC-133

Test Name: Faceside

Adhesive Thickness	1.5 mil	View 
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Test Method: PSTC-133


Test Name: Faceside

### Typical Performance Characteristics

Property	Values	Additional Information
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Tensile Strength	33.9 N/25.4mm	View 
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Test Method: PSTC-131

Tensile Strength	7.5 lb/in	View 
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Test Method: PSTC-131

Elongation	100 %	View 
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Test Method: PSTC-131

Peel Adhesion	11.1 N/25.4mm	View 
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Test Method: PSTC-101

Test Name: Faceside  
Dwell/Cure Time: 20.0  
Dwell Time Units: min

Peel Adhesion	40 oz/in	View 
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Test Method: PSTC-101








Test Name: Faceside  
Dwell/Cure Time: 20.0  
Dwell Time Units: min

Peel Adhesion	11.1 N/25.4mm	View 
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Test Method: PSTC-101

Test Name: Backside

Dwell/Cure Time: 20.0  
Dwell Time Units: min

Peel Adhesion	40 oz/in	View 
Test Method: PSTC-101 Test Name: Backside Dwell/Cure Time: 20.0 Dwell Time Units: min		
Long Term Temp C	149 °C	View 
Test Condition: Long Term (day, weeks)		
Minimum Long Term Temperature Resistance	-40 °C	View 
Test Condition: Long Term (day, weeks)		
Long Term Temp F	300 °F	View 
Test Condition: Long Term (day, weeks)		
Minimum Long Term Temperature Resistance	-40 °F	View 
Test Condition: Long Term (day, weeks)		
UV Resistance	Excellent	
Shear Adhesion	>24 hrs @ 15.2 kPa	View 
Test Method: PSTC-107		
Shear Adhesion	>24 hr	View 
Test Method: PSTC-107		
Notes: @2.2 psi		

## Available Sizes

- Master rolls: 54" x 250 LY

## 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

## Automotive Disclaimer

Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, including, but not limited to, automotive electric powertrain battery or high voltage applications. This product does not fully adhere to typical automotive design or quality system requirements, such as IATF 16949 or VDA 6.3. This product may not be manufactured in an IATF certified facility and may not meet a Ppk of 1.33 for all properties. The product may not undergo an automotive production part approval process (PPAP). Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for

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## Bottom Matter

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## Trademarks

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3M and Venture Tape are a trademarks of 3M Company.

## References

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Property	Values
3m.com Product Page	<a href="https://www.3m.com/3M/en_US/p/d/b40070354/">https://www.3m.com/3M/en_US/p/d/b40070354/</a>

## ISO Statement

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

## Precautionary Information

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For information please contact your local 3M Office. [www.3M.com](http://www.3M.com)

## Information

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