

March, 2016

## 3M™ High Temperature Nylon Tape 855

### Product Description

3M™ High Temperature Nylon Tape 855 is a strong nylon backings and a high temperature rubber adhesive. Used to hold down materials during composite or metal bonding bagging operations or assist in removing flashing after composite bonding, where the use of a non-silicone tape is preferred.

### Product Features

- High temperature performance is achieved without the use of silicone adhesive which eliminates silicone residue which often interferes with cleaning operations and anchorage of certain adhesives and paints.
- High temperature – clean removal to a variety of surfaces after exposure to 350°F (177°C) for several hours. In shorter cycles, the tape can be expected to provide satisfactory performance up to 400°F (204°C) bake cycles.
- Nylon backing for toughness, high elongation, quick removal, and ease of application.



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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.

## Typical Physical Properties

Property	Values		Method
Color	Cream		
Total Tape Thickness	0.091 mm	3.6 mil	ASTM D3652
Backing Thickness	0.051 mm	2.0 mil	ASTM D3652
Backing	Nylon		
Adhesive	Rubber		

## Typical Performance Characteristics

Property	Values		Method	Substrate
Peel Adhesion	6.1 N/cm	57 oz/in	ASTM D3330	Stainless Steel
Tensile Strength	56 N/cm	512 oz/in	ASTM D3759	
Elongation at Break	460 %		ASTM D3759	
Temperature Use Range	16 to 204 °C	60 to 400 °F		
Temperature Use Range note	Withstands autoclave cycles up to 350°F (177°C)			

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## Available Sizes

Property	Values	
Standard Roll Length	65.8 m	72 yd

## Handling/Application Information

### Application Ideas

- Holding down composite or metal bonding materials during autoclave processes.
- Used to remove flash after composite or metal bonding operations.
- Advanced composite and metal bond masking as non-silicone adhesive allows use on many parts and tooling equipment where subsequent painting or bonding operations will take place.
- High temperature paint masking up to 400°F (204°C) for short term bake cycles.

### Storage and Shelf Life

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.

To obtain best performance, use this product within 18 months from date of manufacture.

### Trademarks

3M is a trademark of 3M Company.

### References

#### Safety Data Sheet (SDS)

[https://www.3m.com/3M/en\\_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en\\_US&co=ptn&q=855](https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=855)

### ISO Statement

This product was manufactured under a quality system registered to ISO 9001 standards.

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## Technical Information

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Industrial Adhesives and Tapes  
Division  
3M Center  
St. Paul, MN 55144-1000  
800-362-3550  
[www.3M.com](http://www.3M.com)

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