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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	Dwell/Cure Time	Substrate	Notes
180° Peel Adhesion	6.1 N/cm	57 oz/in	ASTM D3330	Initial	Stainless Steel	12 in/min (300 mm/min)
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				

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Typical Performance Characteristics (continued)

Property	Values	Method	Dwell/Cure Time	Substrate	Notes
Temperature Use Range note	Withstands autoclave cycles up to 350°F (177°C)				

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.

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References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/~//3M-High-Temperature-Nylon-Film-Tape-855?N=5002385+3293241697&rt=rud
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

ISO Statement

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

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Information

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3M United States
3M Center
St. Paul, MN 55144-1000
800-362-3550
www.3M.com

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