

Technical Data Sheet

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.

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
Backing	Nylon	
Adhesive Type	Rubber	
Color	Cream	
Backing Thickness (mm)	0.051 mm	View 
Test Method: ASTM D3652		
Total Tape Thickness (mil)	3.6 mil	View 
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.091 mm	View 
Test Method: ASTM D3652		










Backing Thickness

2 mil

View 

Test Method: ASTM D3652

Typical Performance Characteristics

Property	Values	Additional Information
Tensile Strength	56 N/cm	View 
Test Method: ASTM D3759		
180° Peel Adhesion	6.1 N/cm	View 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	57 oz/in	View 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
Tensile Strength	512 oz/in	View 
Test Method: ASTM D3759		
Elongation at Break (%)	460 %	View 
Test Method: ASTM D3759		
Long Term Temp C	204 °C	View 
Test Condition: Long Term (day, weeks)		
Minimum Long Term Temperature Resistance	16 °C	View 
Test Condition: Long Term (day, weeks)		
Long Term Temp F	400 °F	View 
Test Condition: Long Term (day, weeks)		
Minimum Long Term Temperature Resistance	60 °F	View 
Test Condition: Long Term (day, weeks)		
Temperature Use Range note	Withstands autoclave cycles up to 350°F (177°C)	

Available Sizes

Property	Values	Additional Information
Standard Roll Length	65.8 m	
Standard Roll Length	72 yd	

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.

Bottom Matter

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Trademarks

3M is a trademark of 3M Company.

Handling/Application Information

Application Examples

- 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.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40070610/
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

Family Group

Link Tags:

855

Products	Backing	Adhesive Type	Color	Total Tape Thickness (mm)	Tensile Strength	Long Term Temp C	Long Term Temp F
855	Nylon	Rubber	Cream	0.091 mm	56 N/cm	204 °C	400 °F

ISO Statement

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

Information

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