



High Temperature Nylon Tape

855 • 8555

Technical Data

February 2017

Product Description 3M™ High Temperature Nylon Tape 855 and 8555 have 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 Construction	Backing	Adhesive	Color	Standard Roll Length
	Nylon	Rubber	Cream	72 yds. (65.8 m)

Typical Physical Properties Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

ASTM Test Method

3M Tape 855

Adhesion to Steel:	57 oz./in. width (61 N/100 mm)	D-3330
Tensile Strength at Break:	32 lbs./in. width (560 N/100 mm)	D-3759
Elongation at Break:	460%	D-3759
Backing Thickness:	2.0 mils (0.051 mm)	D-3652
Total Thickness:	3.6 mils (0.091 mm)	D-3652
Temperature Use Range:	60 - 400°F (140 - 204°C) withstands autoclave cycles up to 350°F (204°C)	

3M Tape 8555

Adhesion to Steel:	39 oz./in. width (43 N/100 mm)	D-3330
Tensile Strength at Break:	95 lbs./in. width (1663 N/100 mm)	D-3759
Elongation at Break:	375%	D-3759
Backing Thickness:	5.0 mils (0.13 mm)	D-3652
Total Thickness:	7.0 mils (0.18 mm)	D-3652
Temperature Use Range:	60 - 400°F (140 - 204°C) withstands autoclave cycles up to 350°F (204°C)	

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.

3M™ High Temperature Nylon Tape

855•8555

Application Ideas	<ul style="list-style-type: none">• 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	Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.
---------	--

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

Technical Information	The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.
-----------------------	---

Product Selection and Use	Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.
---------------------------	---

Warranty, Limited Remedy, and Disclaimer	Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.
--	---

Limitation of Liability	Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.
-------------------------	--

ISO 9001

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



Industrial Adhesives and Tapes Division
3M Center, Building 220-3S-06
St. Paul, MN 55144-1000
800-362-3550 · 577-369-2923 (Fax)
www.3M.com/industrial

3M is a trademark of 3M Company.
Printed in U.S.A.
©3M 2017