

# 3M Double Coated Tapes

## 99786 • 99786NP

Technical Data

September 2017

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**Product Description** 3M™ Double Coated Tapes 99786 and 99786NP with 3M™ Adhesive 300MP provide high adhesion to a wide variety of materials, including plastics and foams and has a thin nonwoven carrier for dimensional stability and improved handling.

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Product Construction	3M™ Double Coated Tape 99786	3M™ Double Coated Tape 99786NP
Adhesive Type:	300MP	300MP
Adhesive Thickness:	5.5 mil (0.14 mm)	5.5 mil (0.14 mm)
Liner Color, Type:	Tan 58# Polycoated Kraft Paper with 3M print	Tan 58# Polycoated Kraft Paper, unprinted
Liner Caliper:	4.2 mil (0.11 mm)	4.2 mil (0.11 mm)
Carrier Type:	Nonwoven	Nonwoven

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**Features**

- Excellent adhesion to open cell foams.
- Consistent adhesive performance to many plastics.
- Polycoated liner for ease of handling.

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**Application Ideas**

- Foam lamination
- Gasket attachment
- Insulator attachment
- General attachment
- Nameplate attachment

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### Typical Physical Properties and Performance Characteristics

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

#### 90 degree peel

Adhesion to Steel: (ASTM D-3330 – 90 degree 72 hour RT 2 mil Al foil)	61 oz/in (67N/100mm) [1729 g/in]
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Adhesion to Polycarbonate: (ASTM D-3330 – 90 degree 72 hour RT 2 mil Al foil)	50 oz/in (55N/100mm) [1417 g/in]
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Adhesion to ABS: (ASTM D-3330 – 90 degree 72 hour RT 2 mil Al foil)	49 oz/in (54N/100mm) [1389 g/in]
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#### 180 degree peel

Adhesion to Steel: (ASTM D-3330 – 90 degree 72 hour RT 2 mil Al foil)	54 oz/in (57N/100mm) [1474 g/in]
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Adhesion to Polycarbonate: (ASTM D-3330 – 90 degree 72 hour RT 2 mil Al foil)	54 oz/in (59N/100mm) [1531 g/in]
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Adhesion to ABS: (ASTM D-3330 – 90 degree 72 hour RT 2 mil Al foil)	47 oz/in (52N/100mm) [1332 g/in]
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Static Shear: (ASTM D-3654 – 1000 grams using 1/2" x 1" sample size, RT)	358 minutes
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Liner Release: (ASTM D-3330 – 90 inch/minute, RT)	40 g/in (44N/100mm) [.04 kg/in]
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#### Relative High Temperature Operating Ranges:

Long Term (days, weeks)	200°F (93°C)
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Short Term (minutes, hours)	300°F (149°C)
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### Tips for Handling in Roll Form

#### Handling Recommendations:

- Rolls should be handled at a minimum and handled by their core and top layer, without applying a lot of finger pressure.
- Do not handle the rolls by their sides, as this can cause the sides of the adhesive to bond with fingertips.

For additional information, please refer to the *3M™ Laminating Adhesives 300MP Technical Bulletin* (70-0709-3905-6).

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<b>Storage</b>	<p>It is best to use the rolls as soon as possible after receipt. Ideally, rolls should be laminated to the intended substrates as soon after receipt as possible.</p> <p>Store in original cartons at 70°F (21°C) and 50% relative humidity.</p> <p>When storing rolls, lay them flat in a horizontal position with release treated wafers between the rolls.</p>
<b>Shelf Life</b>	<p>If stored under proper conditions, product retains its performance and properties for two years from date of manufacture.</p>
<b>Certification/ Recognition</b>	<p>TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements.</p>
<b>Technical Information</b>	<p>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.</p>
<b>Product Selection and Use</b>	<p>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.</p>
<b>Warranty, Limited Remedy and Disclaimer</b>	<p>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.</p>
<b>Limitation of Liability</b>	<p>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.</p>

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**ISO 9001:2008**

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2008 standards.



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