



Double Coated Tapes with 3M™ Adhesive 300MP

99786 • 99786NP

Technical Data

January, 2011

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.

Product Construction

	3M™ Double Coated Tape 99786	3M™ Double Coated Tape 99786NP
Adhesive Type:	300MP	300MP
Adhesive Thickness:	5.5 mil (0.15 mm)	5.5 mil (0.15 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

Features

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

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 Laminating Adhesives 300MP Technical Bulletin (70-0709-3905-6).

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Storage

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.

Store in original cartons at 70°F (21°C) and 50% relative humidity.

When storing rolls, lay them flat in a horizontal position with release treated wafers between the rolls.

Shelf Life

If stored under proper conditions, product retains its performance and properties for two years from date of manufacture.

Certification/ Recognition

TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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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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