## **3M** High Performance Adhesive Transfer Tapes

- 467MP 468MP 467MPF 468MPF 7952MP
- 7955MP 7962MP 7965MP 9172MP 9185MP
- 9667MP 9668MP

Technical Data	September 2017
Product Description	3M <sup>™</sup> Adhesive 200MP is a popular choice for graphic attachment and membrane switch applications because it has excellent quality, consistency and durability. This adhesive family is provided with a variety of liner configurations to help ensure excellent process flexibility.
Product Features	As a result of 3M's innovative, proprietary process, 3M adhesive 200MP offers the following excellent performance characteristics:
	<ul> <li>Clarity – virtually free of vapor inclusions that are commonly found in adhesives produced by the traditional solvent coating technique.</li> </ul>
	<ul> <li>Excellent high temperature performance as well as excellent shear strength – minimizes edge lifting and slippage of parts.</li> </ul>
	<ul> <li>Excellent resistance to harsh environments – this adhesive can withstand splashes of organic solvents, weak acids and bases, salt water, cleaning solutions, germicidals, disinfectants, oils, etc.</li> </ul>
	<ul> <li>Performs well after exposure to humidity and hot/cold cycles.</li> </ul>
	<ul> <li>Provides some initial repositionability when bonding to plastic parts (not metal) which allows graphic parts to be lifted and repositioned if initial alignment is incorrect.</li> </ul>
Application Ideas	• Long term bonding of graphic nameplates and overlays ( <i>subsurface</i> printed polycarbonate or polyester) to metal and high surface energy plastics in the aerospace, medical and industrial equipment, automotive, appliance and electronic markets.
	<ul> <li>Bonding metal nameplates and rating plates in the aerospace, medical and industrial equipment, automotive, appliance and electronic markets.</li> </ul>
	<ul> <li>Bonding graphic overlays for membrane switches and for bonding the complete switch to the equipment surface.</li> </ul>
	<ul> <li>High speed processing of parts in the medical, telecommunications and electronics markets: medical components, durable labels, flexible circuits.</li> </ul>
	<ul> <li>Lamination to industrial foams for rotary die-cutting of small gaskets for industrial and electronics markets.</li> </ul>

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Product Constructions				
Product Number	Adhesive Type/ Color <sup>1</sup>	Adhesive Thickness <sup>2</sup> (mils, mm)	Liner Color, Type, Print	Liner Caliper <sup>3</sup> / Liner Release <sup>4</sup>
3M™ Adhesive Transfer Tape 467MP	200MP/ Clear	2.3 mils (0.06 mm)	Tan, 58#, Polycoated Kraft 3M 467MP, 200MP Adhesive	4.2 mils 50 grams/inch
3M™ Adhesive Transfer Tape 468MP	200MP/ Clear	5.2 mils (0.13 mm)	Tan, 58#, Polycoated Kraft 3M 468MP, 200MP Adhesive	4.2 mils 50 grams/inch
3M™ Adhesive Transfer Tape 467MPF	200MP/ Clear	2.3 mils (0.06 mm)	Clear, Polyester (PET) No Print	2.0 mils 20 grams/inch
3M™ Adhesive Transfer Tape 468MPF	200MP/ Clear	5.2 mils (0.13 mm)	Clear, Polyester No Print	2.0 mils 20 grams/inch
3M™ Adhesive Transfer Tape 7952MP	200MP/ Clear	2.3 mils (0.06 mm)	1) Tan, 58#, Polycoated Kraft 3M 467MP, 200MP Adhesive 2) Tan, 58# PCK	1) 4.2 mils 50 grams/inch 2) 4.2 mils
3M™ Adhesive Transfer Tape 7955MP	200MP/ Clear	5.2 mils (0.13 mm)	<ol> <li>Tan, 58#, Polycoated Kraft 3M 468MP, 200MP Adhesive</li> <li>Tan, 58# PCK</li> </ol>	<ol> <li>4.2 mils 50 grams/inch</li> <li>4.2 mils 12 grams/inch</li> </ol>
3M™ Adhesive Transfer Tape 7962MP	200MP/ Clear	2.3 mils (0.06 mm)	<ol> <li>1) Tan, 83#, Polycoated Kraft 3M 200MP</li> <li>2) Tan, 58# PCK</li> </ol>	<ol> <li>6.2 mils printed 50 grams/inch</li> <li>4.2 mils 12 grams/inch</li> </ol>
3M™ Adhesive Transfer Tape 7965MP	200MP/ Clear	5.2 mils (0.13 mm)	<ol> <li>1) Tan, 83#, Polycoated Kraft 3M 200MP</li> <li>2) Tan, 58# PCK</li> </ol>	<ol> <li>6.2 mils printed 50 grams/inch</li> <li>4.2 mils 12 grams/inch</li> </ol>
3M™ Adhesive Transfer Tape 9172MP	200MP/ Clear	2.3 mils (0.06 mm)	<ol> <li>Clear HDPE Film, No Print</li> <li>Tan, 58# Polycoated Kraft No Print</li> </ol>	1) 3.0 mils 50 grams/inch 2) 4.2 mils 7 grams/inch
3M™ Adhesive Transfer Tape 9185MP	200MP/ Clear	5.2 mils (0.13 mm)	<ol> <li>Clear HDPE Film, No Print</li> <li>Tan, 58# Polycoated Kraft No Print</li> </ol>	1) 3.0 mils 70 grams/inch 2) 4.2 mils 7 grams/inch
3M™ Adhesive Transfer Tape 9667MP	200MP/ Clear	2.3 mils (0.06 mm)	Tan, 83#, Polycoated Kraft 3M 200MP	6.2 mils 60 grams/inch
3M™ Adhesive Transfer Tape 9668MP	200MP/ Clear	5.2 mils (0.13 mm)	Tan, 83#, Polycoated Kraft 3M 200MP	6.2 mils 70 grams/inch

<sup>1</sup>The adhesive color is transparent with a very slight yellow cast. The yellow cast is not typically visible in a single adhesive layer.

<sup>2</sup>The thickness listed is based on a calculation from manufacturing controlled adhesive coat weights using a density of 1.012 g/cc. While past data pages have listed nominal thicknesses of 2 and 5 mils, the coat weight (and theoretical caliper) has not changed.

<sup>3</sup>Where two liners are listed (double-linered products, useful for selective die-cutting), liner 1) is the primary (stays with the die-cut part); liner 2) is the secondary (removed first). The polycoat on one side of the heavy linered products (83#) was changed to balance the liner. This balanced sheet will provide an improvement to the flatness of products made using the heavy liner.

<sup>4</sup>Typical liner release value, in grams/inch, tested at 90 ipm.

For additional double coated product constructions (adhesive/carrier/adhesive) using 3M<sup>™</sup> Adhesive 200MP, please refer to the data page for 3M<sup>™</sup> Membrane Switch Spacers (70-0707-1195-0) and the data page for Double Coated Tapes with 3M<sup>™</sup> Adhesive 200MP (70-0709-3792-8).

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	Liner Configuration Guide:						
Construction (continued)	General purpose steel rule die-cutting: 58# polycoated kraft (PCK) Steel rule cutting nested or multi-up nameplates on common sheet: 83# PCK Kiss cutting, steel rule: 83# PCK Rotary die-cutting: polyester (PET) and polycoated glassine (PCG) Selective die-cutting (cut adhesive before laminate): double-linered Thermoforming: HDPE, white PP Part inspection: HDPE, PET Embossed parts: white, PP, HDPE Metal parts (punch press): polyester or DK added						
	The polycoated kraft liners are mor standard plain paper liners. The filr of humidity.			-			
	•	a 200MP					
	<ul> <li>Adding Liners for 3M<sup>™</sup> Adhesive 200MP:</li> <li>1. Rotary processing, adhesive only, on a densified kraft liner (outside of 3M<sup>™</sup> liner 4994<sup>5</sup>). In this process the adhesive will stay with the 58# PCK liner, leaving adhesive die-cuts dispensable from the densified kraft liner 4994.</li> <li>2. Rotary processing for finished parts. It is most efficient to use 3M<sup>™</sup> Adhesive Transfer Tapes 467MPF or 468MPF (inside of 3M<sup>™</sup> liner 4994<sup>5</sup>). If a densified kraft (DK) liner is necessary, the adhesive should be first laminated to the substrate with pressure. After lamination, remove the 58# PCK liner and laminate the inside of the liner 4994 (DK). Current process limitations prevent the supply of the 3M adhesive 200MP on a DK liner.</li> </ul>						
Typical Physical	<ul> <li>Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.</li> <li>I. Adhesion to Stainless Steel</li> <li>ASTM D3330 modified (90° peel, 2 mil aluminum foil backing)</li> </ul>						
Properties and Performance Characteristics							
			02 inches)		)05 inches)		
	Dwell	ounces/inch	N/100mm	ounces/inch	N/100mm		
	15 minute room temperature (RT)	47	51	66	72		
	72 hour RT	82	90	118	129		
	72 hour 158°F (70°C)	168	184	181	198		
	72 hour RT - 180° peel, 2 mil al foil	77	84	133	146		
	II. Adhesion to Other Surfaces ASTM D3330 modified (90° peel, 2 mil aluminum foil backing) 2 mil (0.002 inches) 5 mil (0.005 inches)						
	Dwell	ounces/inch	-	ounces/inch	N/100mm		
	72 hour RT aluminum	77	84	115	126		
	72 hour RT ABS	62	68	68	74		
	72 hour RT acrylic	61	67	67	73		
	72 hour RT glass	80	88	92	101		
	72 hour RT polycarbonate	58	63	65	71		

72 hour RT rigid PVC (unplasticized)

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

#### III. Relative High Temperature Operating Ranges

Short term (minutes/hours)	400°F (204°C)
Long term (days/weeks)	300°F (149°C)

#### IV. Static Shear

### ASTM D3654 - 1" x 1" sample area - aluminum foil to stainless steel

		Minutes to Failure		
Temperature	Load	2 mil	5 mil	
70°F (21°C)	2000 grams	10,000+	10,000+	
200°F (93°C)	1000 grams	10,000+	10,000+	
350°F (177°C)	500 grams	10,000+	10,000+	
450°F (232°C)	400 grams	60	75	
450°F (232°C)	200 grams	10,000+	10,000+	

V. Shelf Life of Tape in Roll Form

24 months from the manufacturing date when stored at  $70^{\circ}F(21^{\circ}C)$  and 50% relative humidity.

VI. Adhesion Retention after Immersion and Exposure (percent retention) Control is 24 hour RT dwell on stainless steel, 2 mil al foil backing, 90° peel, 12 ipm

	3M™ Adhesive 200MP 2 mil 5 mil		
Control adhesion value in ounces/inch	101 oz./inch	149 oz./inch	
Gasoline - 1 hour RT immersion	89%	83%	
MEK - 1 hour RT immersion	64%	66%	
Weak acid - 4 hour RT immersion	86%	86%	
Weak base - 4 hour RT immersion	84%	83%	
Oil (10W30) - 72 hour, 120°F (49°C) immersion	146%	141%	
Water - 100 hours, 70°F (21°C)	105%	116%	
Salt water (5%) - 72 hours, 70°F (21°C)	105%	93%	
Warm/humid - 7 days, 90°F (32°C) and 90% relative humidity	131%	1 01%	
UV cabinet - 30 days, 70°F (21°C)	147%	93%	
Temperature cycle - Three cycles*	148%	158%	

\*One cycle is 4 hours, 158°F (70°C); 4 hours, -20°F (-29°C); 16 hours, 70°F (21°C)

#### VII. Low Temperature Performace

The glass transition temperature for 3M adhesive 200MP is -31°F (-35°C). Many applications survive below this temperature (factors affecting successful applications include: materials being bonded, dwell at RT before cold exposure and stress below the TG [i.e. expansion/ contraction stresses, impact]). Optimum conditions are: bonding high surface energy materials, longer time at RT before cold exposure and little or no stress below the Tg. The lowest service temperature is -40°F (-40°C).

<sup>6</sup>Adhesive 200MP is not recommended for low energy plastics (polypropylene, polyethylene, powder coated paints). For these surfaces please refer to 3M™ Adhesives 300, 350, 300LSE and 300MP. The 3M™ Adhesive 300LSE has been used more frequently as the bond areas in applications become smaller. It offers the smooth, high performance characteristics of the 3M adhesive 200MP with higher adhesion to plastic. 3M adhesive 300LSE is ideal for polyethylene, polypropylene, powder coated paints and for applications where the bonded area to plastic is less than 1/2" wide.

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Electrical, Mechanical and Thermal Properties	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.				
·	Property	3M™ Adhe 2 mil	sive 200MP 5 mil		
	Insulation Resistance (test voltage = 100 VDC) Mil-1-46058C	>1 x 10 <sup>10</sup> ohms	>1 x 10 <sup>10</sup> ohms		
	Dielectric Strength – (500 vac, rms [60 hz/sec]) volts/mil ASTM D149-92	880 volts/mil	600		
	Breakdown Voltage	1,760 volts	3,000 volts		
	Dielectric Constant (at 1 KHz) ASTM D 150-92	3.40	4.06		
	Dissipation Factor	0.021	0.022		
	Tensile Lap Shear – Peak Load ASTM D1002-72 (0.5 square inch on #6061 aluminum)		55 lbs.		
	Tensile Lap Shear – Peak Stress ASTM D1002-72		109 PSI		
	Tensile Strength and Elongation ASTM D2370-82		51 PSI 1915%		
	Thermal Conductivity (ASTM C 518, results listed are at 109°F)	0.098 BTU-ft/ ft <sup>2</sup> -hr-F 0.17 watt/m-K	0.101 BTU-ft/ ft <sup>2</sup> -hr-F 0.18 watt/m-K		
	Coefficient of Thermal Expansion - first heat ASTM D 696 - second heat	28 x 10 <sup>-5</sup> m/m/C 72 x 10 <sup>-5</sup> m/m/C	-6 x 10 <sup>-5</sup> m/m/C 92 x 10 <sup>-5</sup> m/m/C		

### Specifications

Please specify 3M adhesive 200MP, 2 mil or 5 mil rather than the exact product number based on the liner configuration. The converter will select the product with the necessary liner configuration to meet the delivery requirements.

	3M™ Adhesive 200MP		
	2 mil	5 mil	
Coat weight <sup>7</sup> (grains/4" x 6") (grams/ft <sup>2</sup> )	14 ± 12% 5.4 ± 12%	32 ± 12% 12.4 ± 12%	
Face Adhesion <sup>8</sup> (exposed side) ounces/inch	30 minimum	37 minimum	
Back Adhesion <sup>8</sup> (liner side) ounces/inch	30 minimum	37 minimum	

<sup>7</sup> The amount of adhesive supplied, for pressure-sensitive adhesives, is controlled by the adhesive coat weight, not the adhesive caliper. Pressure-sensitive adhesives are compressible which results in high error for caliper measurements. The caliper listed in the Constructions section (page 1) has been calculated using a density of 1.012 g/cc (testing caliper is not part of the standard release testing because of the error described.)

<sup>8</sup>ASTM D3330, 15 minute dwell on stainless steel. For this adhesive family, the adhesion will be much higher with longer dwells on stainless steel and other high surface energy materials (please refer to the typical Physical Properties section in this document to see performance on other materials after longer dwells).

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Sizes		Master Size	Slit Width (minimum)	Roll Length <sup>9</sup>	Core Size	Slit Tolerance	
	3M™ Adhesive Transfer Tape 467MP 3M™ Adhesive Transfer Tape 468MP	48", 54" 60"	1/2"	60-360 yards	3"	±1/32"	
	3M™ Adhesive Transfer Tape 467MPF 3M™ Adhesive Transfer Tape 468MPF	54"	1/2"	60-360 yards	3"	±1/32"	
	3M <sup>™</sup> Adhesive Transfer Tape 7952MP 3M <sup>™</sup> Adhesive Transfer Tape 7955MP 3M <sup>™</sup> Adhesive Transfer Tape 7962MP 3M <sup>™</sup> Adhesive Transfer Tape 7965MP	48"	24" x 36" sheets (100/case)	If roll form: 360 yards	lf roll form: 6" cores	If roll form: ±1/32"	
	3M™ Adhesive Transfer Tape 9172MP 3M™ Adhesive Transfer Tape 9185MP	48"	1"	60-360 yards	3"	±1/32"	
	3M™ Adhesive Transfer Tape 9667MP 3M™ Adhesive Transfer Tape 9668MP	54"	1"	60-360 yards	3"	±1/32"	
	<sup>9</sup> Roll lengths vary by product slit width (the cu	ıstomer servi	ce department ha	as more detailed info	ormation, 1-80	)0-328-1681).	
	<ul> <li>frequently contain oils to minimize the drying affect on skin and can interfere with the performance of a pressure-sensitive adhesive.</li> <li>It is necessary to provide pressure during lamination (1.5-20 psi recommended) and during final par installation (10-15 psi) to allow the adhesive to come into direct contact with the substrate. Using a hard edged plastic tool, which is the full width of the laminated part, helps to provide the necessary pressure at the point of lamination. Heat can increase bond strength when bonding to metal parts</li> </ul>						
	pressure at the point of lamination.	Heat can	increase bon	d strength whe	n bonding t	e the necessa o metal parts	
		Heat can erved at r	increase bon oom tempera	d strength when ature over longe	n bonding t	e the necessa o metal parts	
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Application Equipment	pressure at the point of lamination. (generally this same increase is obs parts, the bond strength is not enhal The ideal adhesive application tem not recommended if the surface ter too firm to adhere readily. Once pro low temperature holding is general Properties and Performance Charac When bonding a thin, smooth, flexi use 2 mils of 3M <sup>™</sup> Adhesive 200M Adhesive 200MP would be sugges thicker adhesive to successfully bo required (refer to the data page 70 *Note: Carefully read and follow the m solvents. These cleaning recom	Heat can arred at r anced with perature r mperature operly app ly satisfac cteristics) ble materi ited. If bot nd the con -0709-38 manufacture mendation california; format, lar	increase bon oom tempera in the addition ange is 60°F is below 50° blied at the re tory (please r dal to a smoot ture is visible h materials a mponents. 3N 30-6). ar's precautions s may not be in consult applic mination equi essure-sensit	d strength when ature over longe of heat. to 100°F (15.6°C PF (10°C) becau- commended ap refer to section b th surface, it is g on one or both re rigid, it may b M™ VHB™ Acry s and directions for n compliance with able rules before pment is require tive adhesives p	the bonding t ar times, we be to 38°C). Se the adhe oplication te VII of the T openerally ac surfaces, the openecessar lic Foam Ta or use when the rules of use.	e the necessa to metal parts eeks). For plase Application is estive becomes emperature, ypical Physica ceptable to ne 5 mil 3M™ ry to use a apes may be working with f certain air	

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Certification/ Recognition	<ul> <li>TSCA: These products are defined as articles under the Toxic Substances Control Act and therefore are exempt from inventory listing requirements.</li> <li>MSDS: These products are not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R.</li> <li>1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, the products should not present a health and safety hazard. However, use or processing of the products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards.</li> </ul>			
	UL: Many of these products have been recognized by Underwriters Laboratories Inc. under Standard UL 969, Marking and Labeling Systems Materials Component. For more information on the UL Certification, go to www.3m.com/converter.			
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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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Industrial Adhesives and Tapes Division **Converter Markets** 

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