3M High Performance Adhesive Transfer Tapes with Adhesive 200MP

467MP • 468MP • 467MPF • 468MPF • 467MPR • 468MPR • 7952MP • 7955MP 7962MP • 7965MP • 9172MP • 9172PT • 9185MP • 9188 • 9667MP • 9668MP • 9676

Technical Data	October, 2003
Product Description	3M TM Adhesive 200MP is a popular choice for graphic attachment and membrane switch applications because it has excellent quality, consistency and durability. In addition, as a result of 3M's innovative, proprietary process, 3M adhesive 200MP also offers the following excellent performance characteristics.
	Clarity (virtually free of vapor inclusions that are commonly found in adhesives produced by the traditional solvent coating technique).
	Excellent high temperature performance as well as excellent shear strength (that minimizes edge lifting and slippage of parts).
	Excellent resistance to harsh environments; this adhesive can withstand splashes of organic solvents, weak acids and bases and salt water, cleaning solutions, germicidals, disinfectants, oils, etc. In addition, it performs well after exposure to humidity and hot/cold cycles.
×	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.
	Finally, this adhesive family is provided with a variety of liner configurations to help ensure excellent process flexibility.
Constructions	

Constructions	Adhesive	Adhesive	Liner	Liner
Product	Type/	Thickness ²	Color, Type,	Caliper³/
Number	Color ¹	(mils, mm)	Print	Liner Release ⁴
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	200MP/	2.3 mils	Clear, Polyester (PET),	2.0 mils
Tape 467MPF	Clear	(0.06 mm)	No Print	20 grams/inch
3M [™] Adhesive Transfer	200MP/	5.2 mils	Clear, Polyester,	2.0 mils
Tape 468MPF	Clear	(0.13 mm)	No Print	20 grams/inch
3M™ Adhesive Transfer	200MP/	2.3 mils	White, polycoated glassine paper printed with white 3M logo	3.5 mils
Tape 467MPR	Clear	(0.06 mm)		55 grams/inch
3M™ Adhesive Transfer	200MP/	5.2 mils	White, polycoated glassine paper printed with white 3M logo	3.5 mils
Tape 468MPR	Clear	(0.13 mm)		55 grams/inch
3M™ Adhesive Transfer Tape 7952MP	200MP/ Clear	2.3 mils (0.06 mm)	 Tan, 58#, Polycoated Kraft, "3M 200MP" Tan, 58# PCK 	1) 4.2 mils 50 grams/inch 2) 4.2 mils 12 grams/inch

Constructions (continued	()			\wedge
Product Number	Adhesive Type/ Color ¹	Adhesive Thickness² (mils, mm)	Liner Color, Type, Print	Liner Caliper ³ / Liner Release ⁴
3M™ Adhesive Transfer Tape 7955MP	200MP/ Clear	5.2 mils (0.13 mm)	1) Tan, 58#, Polycoated Kraft, "3M 200MP" 2) Tan, 58# PCK	1) 4.2 mils 50 grams/inch 2) 4.2 mils 12 grams/inch
3M™ Adhesive Transfer Tape 7962MP	200MP/ Clear	2.3 mils (0.06 mm)	1) Tan, 83#, Polycoated Kraft, "3M 200MP" 2) Tan, 58# PCK	1) 6.2 mils printed 50 grams/inch 2) 4.2 mils 12 grams/inch
3M™ Adhesive Transfer Tape 7965MP	200MP/ Clear	5.2 mils (0.13 mm)	 Tan, 83#, Polycoated Kraft, "3M 200MP" Tan, 58# PCK 	1) 6.2 mils printed 50 grams/inch 2) 4.2 mils 12 grams/inch
3M™ Adhesive Transfer Tape 9172MP	200MP/ Clear	2.3 mils (0.06 mm)	 Clear HDPE Film, No Print Tan, 58# Polycoated Kraft, No Print 	1) 3.0 mils 50 grams/inch 2) 4.2 mils 7 grams/inch
3M™ Adhesive Transfer Tape 9172PT	200MP/ Clear	2.3 mils (0.06 mm)	 Clear PET Film, No Print Tan, 58# Polycoated Kraft, No Print 	1) 2.0 mils 40 grams/inch 2) 4.2 mils 7 grams/inch
3M™ Adhesive Transfer Tape 9185MP	200MP/ Clear	5.2 mils (0.13 mm)	1) Clear HDPE Film, No Print 2) Tan, 58# Polycoated Kraft, No Print	1) 3.0 mils 70 grams/inch 2) 4.2 mils 7 grams/inch
3M™ Adhesive Transfer Tape 9188	200MP/ Clear	5.2 mils (0.1m)	 Clear HDPE Film, No Print Tan, 83# Polycoated Kraft, No Print 	1) 3.0 mils 50 grams/inch 2) 6.2 mils 20 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
3M™ Adhesive Transfer Tape 9676	200MP/ Clear	2.3 mils (0.06 mm)	 White Polypropylene (PP), No Print Tan, 58# Polycoated Kraft, No Print 	1) 3.5 mils 45 grams/inch 2) 4.2 mils 20 grams/inch

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

²The 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.

³Where 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.

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

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

Constructions	Liner Configuration Guide:					
(continued)	General purpose steel rule die-cu Steel rule cutting nested or multi-		58	8# polycoated	l kraft (PCK)	
	on common sheet			83# P	-	
	Kiss cutting, steel rule			83# P	-	
	Rotary die-cutting	11-		polyester (F olycoated glas		
	Selective die-cutting (cut adhesiv	e before laminate)	P	double-li		
	Thermoforming			HDPE, wh		
	Part inspection			HDPE,		
	Embossed parts Metal parts (punch press)	657		white, PP, polyester or		
	The polycoated kraft liners are more plain paper liners. The film liners are	resistant to humidity cur the most resistant to the	rl and wi e negati	rinkling than s	standard	
	Adding Liners for 3M TM Adhesi					
	 Rotary processing, adhesive of kraft liner. In this process the a the 58# PCK liner, leaving adh dispensable from the densified 	adhesive will stay with hesive die-cuts	οι	utside of 3M™	^r liner 4994⁵	
	 Rotary processing for finished use 3M[™] Adhesive Transfer 1 If a densified kraft (DK) liner is 	l parts. It is most efficier Tapes 467MPF or 468M	PF.	nside of 3M™	liner 4994 ⁵	
	should be first laminated to the	e substrate with pressur	e.			
	After lamination, remove the 5 the incide of the liner 4004 (D					
	the inside of the liner 4994 (DK). Current process limitations prevent the supply of the 3M adhesive 200MP on a DK liner.					
	⁵ The outside of liner 4994 has the most premium silicone release (easiest release). Typical					
	release, of the outside of liner 49					
	before and after heat aging) is 5- values for the inside of the liner					
	adhesive 200MP.	J				
Typical Physical	Note: The following technical infor	mation and data shou	ld be co	onsidered rep	oresentative	
Properties and	or typical only and should no					
Performance	I. Adhesion to Stainless Steel					
			1 1 .			
Characteristics	ASTM D3330 modified (90° peel,			g)		
Characteristics	ASTM D3330 modified (90° peel, Dwell	, 2 mil aluminum foil 2 mil (0.002 ind ounces/inch N/1	ches)	5 mil (0.0	05 inches) N/100mm	
Characteristics		2 mil (0.002 ind	ches)	5 mil (0.0		
Characteristics	Dwell	2 mil (0.002 ind ounces/inch N/1	ches) 00mm	5 mil (0.0 ounces/inch	N/100mm	
Characteristics	Dwell 15 minute room temperature (RT) 72 hour RT 72 hour 158°F (70°C)	2 mil (0.002 ind ounces/inch N/1 47 82 168	ches) 00mm 51	5 mil (0.00 ounces/inch 66 118 181	N/100mm 72	
Characteristics	Dwell 15 minute room temperature (RT) 72 hour RT	2 mil (0.002 inc ounces/inch N/1 47 82	ches) 00mm 51 90	5 mil (0.00 ounces/inch 66 118	N/100mm 72 129	
Characteristics	Dwell 15 minute room temperature (RT) 72 hour RT 72 hour 158°F (70°C)	2 mil (0.002 ind ounces/inch N/1 47 82 168	ches) 00mm 51 90 184	5 mil (0.00 ounces/inch 66 118 181	N/100mm 72 129 198	
Characteristics	Dwell 15 minute room temperature (RT) 72 hour RT 72 hour 158°F (70°C) 72 hour RT - 180° peel, 2 mil al foil	2 mil (0.002 ind ounces/inch N/1 47 82 168 77 , 2 mil aluminum foil	backin	5 mil (0.00 ounces/inch 66 118 181 133 g)	N/100mm 72 129 198 146	
Characteristics	Dwell15 minute room temperature (RT)72 hour RT72 hour 158°F (70°C)72 hour RT - 180° peel, 2 mil al foilII. Adhesion to Other SurfacesASTM D3330 modified (90° peel,	2 mil (0.002 ind ounces/inch N/1 47 82 168 77 , 2 mil aluminum foil 2 mil (0.002 ind	ches) 00mm 51 90 184 84 backin ches)	5 mil (0.00 ounces/inch 66 118 181 133 g) 5 mil (0.00	N/100mm 72 129 198 146 05 inches)	
Characteristics	Dwell 15 minute room temperature (RT) 72 hour RT 72 hour 158°F (70°C) 72 hour RT - 180° peel, 2 mil al foil II. Adhesion to Other Surfaces ASTM D3330 modified (90° peel, Dwell	2 mil (0.002 ind ounces/inch N/1 47 82 168 77 , 2 mil aluminum foil 2 mil (0.002 ind ounces/inch N/1	ches) 00mm 51 90 184 84 backin ches) 00mm	5 mil (0.00 ounces/inch 66 118 181 133 g) 5 mil (0.00 ounces/inch	N/100mm 72 129 198 146 05 inches) N/100mm	
Characteristics	Dwell15 minute room temperature (RT)72 hour RT72 hour 158°F (70°C)72 hour RT - 180° peel, 2 mil al foilII. Adhesion to Other SurfacesASTM D3330 modified (90° peel,	2 mil (0.002 ind ounces/inch N/1 47 82 168 77 , 2 mil aluminum foil 2 mil (0.002 ind ounces/inch N/1 77	ches) 00mm 51 90 184 84 backin ches)	5 mil (0.00 ounces/inch 66 118 181 133 g) 5 mil (0.00	N/100mm 72 129 198 146 05 inches)	

72 hour RT acrylic

72 hour RT glass

72 hour RT polycarbonate

72 hour RT rigid PVC (unplasticized)

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°F (21°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 200	
	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%	101%
UV cabinet - 30 days, 70°F (21°C)	147%	93%
Temperature Cycle - *Three cycles *One cycle is 4 hours, 158°F (70°C); 4 hours, -20°F (-29°C)	148% ; 16 hours, 70°F	158% (21°C)

VII. Low Service Temperature

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.

⁶Adhesive 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.

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.

	3M™ Adhesive 200MP 2 mil 5 mil			
Property	2 mil (3M™ Adhesive Transfer Tape 467MPR was tested)	3 mi (3M™ Adhesive Transfer Tape 468MPR was tested)		
Insulation Resistance (test voltage = 100 VDC) Mil-I-46058C	>1 x 10 ¹⁰ ohms	>1 x 10 ¹⁰ ohms		
Dielectric Strength – (500 vac, rms [60 hz/sec]) ASTM D149-92	880 volts/mil	600 volts/mil		
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 ² -hr-F 0.17 watt/m-K	0.101 BTU-ft/ ft ² -hr-F 0.18 watt/m-K		
Coefficient of Thermal Expansion - first heat ASTM D 696 - second heat	28 x 10 ⁻⁵ m/m/C 72 x 10 ⁻⁵ m/m/C	-6 x 10⁻⁵ m/m/C 92 x 10⁻⁵ 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 ⁷ (grains/4" x 6") (grams/ft ²)	14 ± 12% 5.4 ± 12%	32 ± 12% 12.4 ± 12%	
Face Adhesion ⁸ (exposed side) ounces/inch	30 minimum	37 minimum	
Back Adhesion ⁸ (liner side) ounces/inch	30 minimum	37 minimum	

⁷The 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.)

⁸ASTM 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).

Available Sizes		Master Size	Slit Width (minimum)	Roll Length ⁹	Core Size	Slit Tolerance
Siles	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™ Adhesive Transfer Tape 467MPR 3M™ Adhesive Transfer Tape 468MPR			product slit width e detailed informa		
	3M [™] Adhesive Transfer Tape 7952MP 3M [™] Adhesive Transfer Tape 7955MP 3M [™] Adhesive Transfer Tape 7962MP 3M [™] Adhesive Transfer Tape 7965MP	48"	24" x 36" sheets (100/case)	If roll form: 360 yards	If roll form: 6" cores	If roll form: ± 1/32"
	3M [™] Adhesive Transfer Tape 9172MP 3M [™] Adhesive Transfer Tape 9185MP 3M [™] Adhesive Transfer Tape 9676	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"
	3M™ Adhesive Transfer Tape 9188	54"	1"	180 yards	3"	± 1/32

⁹Roll lengths vary by product slit width (the customer service department has more detailed information, 1-800-328-1681).

Application Techniques For maximum bond strength (during installation of the final part) the surface should be thoroughly cleaned and dried. Typical cleaning solvents are heptane* (for oily surfaces) or isopropyl alcohol* for plastics. Use reagent grade solvents since common household materials like rubbing alcohol frequently contain oils to minimize the drying affect on skin and can interfere with the performance of a pressure-sensitive adhesive.

*Note: Carefully read and follow the manufacturer's precautions and directions for use when working with solvents. These cleaning recommendations may not be in compliance with the rules of certain air quality management districts in California; consult applicable rules before use.

It is necessary to provide pressure during lamination (1.5-20 pli recommended) and during final part 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 (generally this same increase is observed at room temperature over longer times, weeks). For plastic parts, the bond strength is not enhanced with the addition of heat.

The ideal adhesive application temperature range is 60° F (21° C) to 100° F (38° C). Application is not recommended if the surface temperature is below 50° F (10° C) because the adhesive becomes too firm to adhere readily. Once properly applied, at the recommended application temperature, low temperature holding is generally satisfactory (please refer to section VII of the Typical Physical Properties and Performance Characteristics).

When bonding a thin, smooth, flexible material to a smooth surface, it is generally acceptable to use 2 mils of 3MTM Adhesive 200MP. If a texture is visible on one or both surfaces, the 5 mil 3M adhesive 200MP would be suggested. If both materials are rigid, it may be necessary to use a thicker adhesive to successfully bond the components. 3MTM VHBTM Acrylic Foam Tapes may be required (please refer to the data page 70-0709-3830-6).

Application Equipment	To apply adhesives in a wide web format, lamination equipment is required to ensure acceptable quality. To learn more about working with pressure-sensitive adhesives please refer to technical bulletin, Lamination Techniques for Converters of Laminating Adhesives (70-0704-1430-8).
	For additional dispenser information, contact your local 3M sales representative, or the toll free 3M sales assistance number at 1-800-362-3550.
Application Ideas	• Long term bonding of graphic nameplates and overlays ("subsurface" printed polycarbonate or polyester) to metal and high surface energy plastics in the aerospace, medical and industrial equipment, automotive, appliance and electronic markets.
	• Bonding metal nameplates and rating plates in the aerospace, medical and industrial equipment, automotive, appliance and electronic markets.
	• Bonding graphic overlays for membrane switches and for bonding the complete switch to the equipment surface.
	• High speed processing of parts in the medical, telecommunications and electronics markets (medical components, durable labels, flexible circuits).
	• Lamination to industrial foams for rotary die-cutting of small gaskets for industrial and electronics markets.
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For Additional Information	To request additional product information or to arrange for sales assistance, call toll free 1-800-223-7427 or visit www.3M.com/converter. Address correspondence to: 3M Industrial Adhesives and Tapes Division, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55144-1000. Our fax number is 651-778-4244. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.
Certification/ Recognition	TSCA: These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.
0	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. 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.
	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, please visit the 3M website at http://www.3m.com/converter.
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