



# Single-Coated Foam Tapes

4100 • 4300 • 4500 • 4700 Series

Technical Data

May, 2008

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## Product Description

3M™ Single-Coated Foam Tapes will adhere to a variety of substrates, including latex-painted wood, lacquered wood, enameled steel, glass, aluminum, stainless steel, acrylic, ABS, and PVC (non-plasticized) as tape adhesion is typically satisfactory within 20 minutes and continues to build with additional time.

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## Products

**Note: The user is responsible for determining whether the tape is fit for a particular purpose and suitable for user's method of application.**

### 3M™ Urethane Foam Tape Series 4100

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3M™ Urethane Foam Tape 4104	1/4 in.	(6.4 mm) thick
3M™ Urethane Foam Tape 4108	1/8 in.	(3.2 mm) thick
3M™ Urethane Foam Tape 4116	1/16 in.	(1.6 mm) thick

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### 3M™ Urethane Foam Tape Series 4300

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3M™ Urethane Foam Tape 4314	1/4 in.	(6.4 mm) thick
3M™ Urethane Foam Tape 4317	3/8 in.	(9.5 mm) thick
3M™ Urethane Foam Tape 4318	1/8 in.	(3.2 mm) thick

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### 3M™ Vinyl Foam Tape Series 4500

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3M™ Vinyl Foam Tape 4504	1/4 in.	(6.4 mm) thick
3M™ Vinyl Foam Tape 4508	1/8 in.	(3.2 mm) thick
3M™ Vinyl Foam Tape 4516	1/16 in.	(1.6 mm) thick

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### 3M™ Vinyl Foam Tape Series 4700

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3M™ Vinyl Foam Tape 4714	1/4 in.	(6.4 mm) thick
3M™ Vinyl Foam Tape 4718	1/8 in.	(3.2 mm) thick
3M™ Vinyl Foam Tape 4726	1/16 in.	(1.6 mm) thick

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# 3M™ Single-Coated Foam Tapes

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## Product Features

3M™ Urethane Foam Tapes Series 4100 are a natural-white, firm, high-density, open-cell foam with pressure-sensitive adhesive on one side. The acrylic adhesive offers high initial quick stick to many types of surfaces along with excellent shear strength and high temperature performance. The adhesive is protected by a 0.003 inch (0.08 mm) thick white, silicone treated paper liner and has a firm rigid open cell urethane that offers excellent cushioning characteristics while allowing air or gas vapors to pass through the open cells. This product is placed on a 1.5 in. wide common core when the tape is 3/4 in. or less in width. Skip slitting is also used for roll stability on these narrow sizes. **Note:** 3M urethane foam tape series 4100 may turn yellow when exposed to light. Such yellowing affects only the appearance and not the physical performance of the tapes.

3M™ Urethane Foam Tapes Series 4300 are a conformable, grey, low-density, open-cell foam with pressure-sensitive acrylic adhesive on one side. The adhesive is protected by a 0.003 inch (0.08 mm) thick tan, silicone treated paper liner and has a very soft, conformable low density foam which can help seal out air, dust and light when compressed 50%. Application ideas include: recessed lighting, door, window and cabinet seals. It also can be used to help cushion, damp sound and absorb vibration in electronics such as printers, keyboards, computers, aircraft lights and automotive dash boards. This tape is available on individual cores and in blocks of 1.5 inches when the tape is 3/4 inch or less in width. **Note:** Extra care should be taken when handling these delicate rolls of tape to avoid damaging tape.

3M™ Vinyl Foam Tapes Series 4500 are a flexible, black, high-density, closed-cell foam with pressure-sensitive acrylic adhesive on one side. A 0.003 inch (0.08 mm) thick white, silicone treated paper liner is applied to the non-adhesive side of the foam so that the PVC can be cut to length and applied while leaving the liner in place.

3M™ Vinyl Foam Tapes Series 4700 are a flexible, black, medium-density, closed-cell foam with a pressure-sensitive acrylic adhesive on one side. The adhesive is protected by a 0.004 inch (0.1 mm) thick white, silicone treated paper liner which allows for die cutting without having to laminate another liner to the foam.

3M vinyl foam tape series 4500 and 4700 are durable, flexible closed cell vinyls which can help seal out dust, light and moisture when placed under 30% compression. These vinyl tapes offer excellent aging characteristics and will remain flexible when exposed to elevated temperatures and UV light. Application ideas include: dust and moisture seal for appliances, computers, copiers and other electronic and transportation equipment.

# 3M™ Single-Coated Foam Tapes

4100 • 4300 • 4500 • 4700 Series

## 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.

	Test Methods	Units	3M™ Urethane Foam Tape		
			4104	4108	4116
<b>Adhesive Type:*</b>			350	350	350
<b>Approximate Thickness:</b>		inch (mm)	0.250 (6.4)	0.125 (3.2)	0.062 (1.6)
<b>Thickness Tolerance:</b>		%	15	15	20
<b>Color:</b>			Natural-white	Natural-white	Natural-white
<b>Release Liner:</b>		inch (mm)	0.003 (0.08)	0.003 (0.08)	0.003 (0.08)
<b>Liner Color:</b>			White	White	White
<b>Standard Length:</b>		yard (meter)	18 (16.5)	36 (32.9)	36 (32.9)
<b>Maximum Length:</b>		yard (meter)	25 (22.9)	50 (45.7)	100 (91.4)
<b>Standard Roll Diameter:</b>		inch (mm)	15 (380)	15 (380)	11 (280)
<b>Available Widths: (Min.-Max.)</b>		inch (mm)	1/4-36 (6-914)	1/4-46 (6-1168)	1/4-46 (6-1168)
<b>Normal Slitting Tolerance:</b>		inch (mm)	± 1/32 (± .8)	± 1/32 (± .8)	± 1/32 (± .8)
<b>Density:</b> Foam with adhesive	ASTM D-3574	lb/cu ft (kg/cu m)	12 (192)	16 (256)	18 (288)
<b>Hardness:</b> Foam with adhesive	ASTM D-2240	Shore 00	75	75	75
<b>Compression Deflection:</b> Compress 25%	ASTM D-3574	psi (kPa)	4 (27.6)	6 (41.4)	12 (82.8)
<b>Compress Set:</b>	ASTM D-1667	% loss	8	8	12
<b>Tensile Strength:</b> Die "A"	ASTM D-3574	psi (kPa)	115 (795)	130 (895)	115 (795)
<b>Elongation:</b> Die "A"	ASTM D-3574	%	100	80	80
<b>Thermal Conductivity:</b>	ASTM C-518	BTU/hr/°F/sq ft/ inch (W/m-K)	0.5 (0.066)	0.5 (0.066)	0.5 (0.066)
<b>Dielectric Strength:</b>	ASTM D-149	volts/mil	50	70	90
<b>Surface Resistivity:</b> Non-adhesive side	ASTM D-257	ohms/sq	1 x 10 <sup>15</sup>	6 x 10 <sup>14</sup>	1 x 10 <sup>14</sup>
<b>Surface Resistivity:</b> Adhesive side	ASTM D-257	ohms/sq	1 x 10 <sup>15</sup>	1 x 10 <sup>15</sup>	3 x 10 <sup>15</sup>
<b>Water Absorption:</b> 30% Compression	ASTM D-1056	% by Volume	open cell - NA	open cell - NA	open cell - NA
<b>Flammability Recognition:</b> Foam with adhesive	UL 94HBF File #E76581	meets requirements	yes	no	no
<b>Flammability Recognition:</b> Foam with adhesive	F.M.V.S.S. 302	meets requirements	yes	yes	yes
<b>Flammability Recognition:</b> Foam with adhesive	F.A.R. 25.853 B-2	meets requirements	yes	yes	no
<b>Flammability Recognition:</b> Foam with adhesive	F.A.R. 25.853 B-3	meets requirements	yes	yes	yes
<b>Mold Resistance:</b> Foam with adhesive	ASTM G21-70	Growth after 28 days	none	none	none

\*3M™ Adhesive 350 is a medium-firm acrylic adhesive that provides a continuation of high wet grab and initial adhesion.

# 3M™ Single-Coated Foam Tapes

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## Typical Physical Properties (continued)

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

	Test Methods	Units	3M™ Urethane Foam Tape		
			4314	4317	4318
<b>Adhesive Type:*</b>			430	430	430
<b>Approximate Thickness:</b>		inch (mm)	0.250 (6.4)	0.375 (9.5)	0.125 (3.2)
<b>Thickness Tolerance:</b>		%	15	10	30
<b>Color:</b>			Charcoal grey	Charcoal grey	Charcoal grey
<b>Release Liner:</b>		inch (mm)	0.003 (0.08)	0.003 (0.08)	0.003 (0.08)
<b>Liner Color:</b>			Tan	Tan	Tan
<b>Standard Length:</b>		yard (meter)	18 (16.5)	9 (8.2)	36 (32.9)
<b>Maximum Length:</b>		yard (meter)	18 (16.5)	9 (8.2)	36 (32.9)
<b>Standard Roll Diameter:</b>		inch (mm)	15 (380)	20 (508)	15 (380)
<b>Available Widths: (Min.-Max.)</b>		inch (mm)	1/4-46 (6-1168)	3/8-46 (9-1168)	1/4-46 (6-1168)
<b>Normal Slitting Tolerance:</b>		inch (mm)	± 1/32 (± .8)	± 1/32 (± .8)	± 1/32 (± .8)
<b>Density:</b> Foam with adhesive	ASTM D-3574	lb/cu ft (kg/cu m)	2 (32)	2 (32)	2 (32)
<b>Hardness:</b> Foam with adhesive	ASTM D-2240	Shore 00	8	6	10
<b>Compression Deflection:</b> Compress 25%	ASTM D-3574	psi (kPa)	0.3 (2.1)	0.3 (2.1)	0.3 (2.1)
<b>Compress Set:</b>	ASTM D-1667	% loss	5	5	5
<b>Tensile Strength:</b> Die "A"	ASTM D-3574	psi (kPa)	25 (170)	25 (170)	25 (170)
<b>Elongation:</b> Die "A"	ASTM D-3574	%	125	125	125
<b>Thermal Conductivity:</b>	ASTM C-518	BTU/hr/°F/sq ft/ inch (W/m-K)	0.3 (0.043)	0.3 (0.043)	0.3 (0.043)
<b>Dielectric Strength:</b>	ASTM D-149	volts/mil	40	40	20
<b>Surface Resistivity:</b> Non-adhesive side	ASTM D-257	ohms/sq	2 x 10 <sup>12</sup>	3 x 10 <sup>12</sup>	6 x 10 <sup>12</sup>
<b>Surface Resistivity:</b> Adhesive side	ASTM D-257	ohms/sq	6 x 10 <sup>12</sup>	5 x 10 <sup>12</sup>	1 x 10 <sup>13</sup>
<b>Water Absorption:</b> 30% Compression	ASTM D-1056	% by Volume	open cell - NA	open cell - NA	open cell - NA
<b>Flammability Recognition:</b> Foam with adhesive	UL 94HBF File #E76581	meets requirements	yes	no	no
<b>Flammability Recognition:</b> Foam with adhesive	F.M.V.S.S. 302	meets requirements	yes	yes	no
<b>Flammability Recognition:</b> Foam with adhesive	F.A.R. 25.853 B-2	meets requirements	yes	yes	no
<b>Flammability Recognition:</b> Foam with adhesive	F.A.R. 25.853 B-3	meets requirements	yes	yes	yes
<b>Mold Resistance:</b> Foam with adhesive	ASTM G21-70	Growth after 28 days	none	none	none

\*3M™ Adhesive 430 is a medium soft adhesive system that offers good quick stick to many types of surfaces along with excellent aging and UV resistance.

# 3M™ Single-Coated Foam Tapes

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## Typical Physical Properties (continued)

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

	Test Methods	Units	3M™ Vinyl Foam Tape		
			4504	4508	4516
<b>Adhesive Type:*</b>			430	430	430
<b>Approximate Thickness:</b>		inch (mm)	0.250 (6.4)	0.125 (3.2)	0.062 (1.6)
<b>Thickness Tolerance:</b>		%	15	15	20
<b>Color:</b>			Black	Black	Black
<b>Release Liner:</b>		inch (mm)	0.003 (0.08)	0.003 (0.08)	0.003 (0.08)
<b>Liner Color:</b>			White	White	White
<b>Standard Length:</b>		yard (meter)	18 (16.5)	36 (32.9)	36 (32.9)
<b>Maximum Length:</b>		yard (meter)	25 (22.9)	50 (45.7)	100 (91.4)
<b>Standard Roll Diameter:</b>		inch (mm)	15 (380)	15 (380)	11 (280)
<b>Available Widths: (Min.-Max.)</b>		inch (mm)	1/4-44 (6-1118)	1/4-44 (6-1118)	1/8-44 (3-1118)
<b>Normal Slitting Tolerance:</b>		inch (mm)	± 1/32 (± .8)	± 1/32 (± .8)	± 1/32 (± .8)
<b>Density:</b> Foam with adhesive	ASTM D-3574	lb/cu ft (kg/cu m)	20 (320)	20 (320)	25 (400)
<b>Hardness:</b> Foam with adhesive	ASTM D-2240	Shore 00	50	50	55
<b>Compression Deflection:</b> Compress 25%	ASTM D-3574	psi (kPa)	4 (27.6)	4 (27.6)	4 (27.6)
<b>Compress Set:</b>	ASTM D-1667	% loss	15	15	15
<b>Tensile Strength:</b> Die "A"	ASTM D-3574	psi (kPa)	90 (620)	100 (690)	130 (895)
<b>Elongation:</b> Die "A"	ASTM D-3574	%	200	200	200
<b>Thermal Conductivity:</b>	ASTM C-518	BTU/hr/°F/sq ft/ inch (W/m-K)	0.3 (0.043)	0.3 (0.043)	0.3 (0.043)
<b>Dielectric Strength:</b>	ASTM D-149	volts/mil	50	100	140
<b>Surface Resistivity:</b> Non-adhesive side	ASTM D-257	ohms/sq	1 x 10 <sup>11</sup>	4 x 10 <sup>10</sup>	1 x 10 <sup>10</sup>
<b>Surface Resistivity:</b> Adhesive side	ASTM D-257	ohms/sq	2 x 10 <sup>11</sup>	1 x 10 <sup>11</sup>	2 x 10 <sup>11</sup>
<b>Water Absorption:</b> 30% Compression	ASTM D-1056	% by Volume	5	5	5
<b>Flammability Recognition:</b> Foam with adhesive	UL 94HBF File #E76581	meets requirements	yes	yes	yes
<b>Flammability Recognition:</b> Foam with adhesive	F.M.V.S.S. 302	meets requirements	yes	yes	yes
<b>Flammability Recognition:</b> Foam with adhesive	F.A.R. 25.853 B-2	meets requirements	yes	yes	yes
<b>Flammability Recognition:</b> Foam with adhesive	F.A.R. 25.853 B-3	meets requirements	yes	yes	yes
<b>Mold Resistance:</b> Foam with adhesive	ASTM G21-70	Growth after 28 days	none	none	none

\*3M™ Adhesive 430 is a medium soft adhesive system that offers good quick stick to many types of surfaces along with excellent aging and UV resistance.

# 3M™ Single-Coated Foam Tapes

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## Typical Physical Properties (continued)

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

	Test Methods	Units	3M™ Vinyl Foam Tape		
			4714	4718	4726
<b>Adhesive Type:*</b>			430	430	430
<b>Approximate Thickness:</b>		inch (mm)	0.250 (6.4)	0.125 (3.2)	0.062 (1.6)
<b>Thickness Tolerance:</b>		%	15	20	30
<b>Color:</b>			Black	Black	Black
<b>Release Liner:</b>		inch (mm)	0.004 (0.10)	0.004 (0.10)	0.004 (0.10)
<b>Liner Color:</b>			White	White	White
<b>Standard Length:</b>		yard (meter)	18 (16.5)	36 (32.9)	36 (32.9)
<b>Maximum Length:</b>		yard (meter)	25 (22.9)	50 (45.7)	100 (91.4)
<b>Standard Roll Diameter:</b>		inch (mm)	15 (380)	15 (380)	11 (280)
<b>Available Widths: (Min.-Max.)</b>		inch (mm)	1/4-46 (6-1168)	1/4-46 (6-1168)	1/8-46 (3-1168)
<b>Normal Slitting Tolerance:</b>		inch (mm)	± 1/32 (± .8)	± 1/32 (± .8)	± 1/32 (± .8)
<b>Density:</b> Foam with adhesive	ASTM D-3574	lb/cu ft (kg/cu m)	14 (225)	18 (288)	20 (230)
<b>Hardness:</b> Foam with adhesive	ASTM D-2240	Shore 00	40	50	50
<b>Compression Deflection:</b> Compress 25%	ASTM D-3574	psi (kPa)	2 (13.8)	2 (13.8)	3 (20.7)
<b>Compress Set:</b>	ASTM D-1667	% loss	5	5	15
<b>Tensile Strength:</b> Die "A"	ASTM D-3574	psi (kPa)	75 (515)	95 (650)	130 (895)
<b>Elongation:</b> Die "A"	ASTM D-3574	%	200	200	200
<b>Thermal Conductivity:</b>	ASTM C-518	BTU/hr/°F/sq ft/ inch (W/m-K)	0.3 (0.043)	0.3 (0.043)	0.3 (0.043)
<b>Dielectric Strength:</b>	ASTM D-149	volts/mil	50	60	80
<b>Surface Resistivity:</b> Non-adhesive side	ASTM D-257	ohms/sq	3 x 10 <sup>10</sup>	5 x 10 <sup>10</sup>	2 x 10 <sup>11</sup>
<b>Surface Resistivity:</b> Adhesive side	ASTM D-257	ohms/sq	2 x 10 <sup>11</sup>	2 x 10 <sup>11</sup>	4 x 10 <sup>11</sup>
<b>Water Absorption:</b> 30% Compression	ASTM D-1056	% by Volume	10	10	10
<b>Flammability Recognition:</b> Foam with adhesive	UL 94HBF File #E76581	meets requirements	yes	yes	yes
<b>Flammability Recognition:</b> Foam with adhesive	F.M.V.S.S. 302	meets requirements	yes	yes	yes
<b>Flammability Recognition:</b> Foam with adhesive	F.A.R. 25.853 B-2	meets requirements	yes	yes	yes
<b>Flammability Recognition:</b> Foam with adhesive	F.A.R. 25.853 B-3	meets requirements	yes	yes	yes
<b>Mold Resistance:</b> Foam with adhesive	ASTM G21-70	Growth after 28 days	none	none	none

\*3M™ Adhesive 430 is a medium soft adhesive system that offers good quick stick to many types of surfaces along with excellent aging and UV resistance.

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## Environmental Exposure

### Resistance to high temperature service conditions

- 3M™ Urethane Foam Tape Series 4100** – 200°F (93°C) continuous  
350°F (177°C) - 30 minutes maximum time
- 3M™ Urethane Foam Tape Series 4300** – 150°F (66°C) continuous  
250°F (121°C) - 30 minutes maximum time
- 3M™ Vinyl Foam Tape Series 4500** – 150°F (66°C) continuous  
250°F (121°C) - 30 minutes maximum time
- 3M™ Vinyl Foam Tape Series 4700** – 150°F (66°C) continuous  
250°F (121°C) - 30 minutes maximum time

### Resistance to low temperature service conditions

- 3M urethane foam tape series 4100** – Cold flex at 0°F (-18°C) no cracks\*
- 3M urethane foam tape series 4300** – Cold flex at -20°F (-29°C) no cracks\*
- 3M vinyl foam tape series 4500** – Cold flex at 0°F (-18°C) no cracks\*
- 3M vinyl foam tape series 4700** – Cold flex at 0°F (-18°C) no cracks\*

\*Tape slowly bent around a 1/4 in. diameter mandrel

## Solvent/Fuel Resistance\*

Solvent/Fuel	3M urethane foam tape series 4100		3M urethane foam tape series 4300		3M vinyl foam tape series 4500		3M vinyl foam tape series 4700	
	Adhesive	Foam	Adhesive	Foam	Adhesive	Foam	Adhesive	Foam
<b>Acetone</b>	Softens	Softens	No effect	No effect	Softens	Swells	Softens	Swells
<b>Ammonia Cleaner</b>	No effect	No effect	No effect	No effect	No effect	No effect	No effect	No effect
<b>Engine Oil</b>	No effect	No effect	No effect	No effect	No effect	No effect	No effect	No effect
<b>Gasoline</b>	Softens	Swells	Softens	No effect	No effect	No effect	No effect	No effect
<b>JP-4 (jet fuel)</b>	Softens	Swells	Softens	No effect	No effect	No effect	No effect	No effect
<b>MEK</b>	Softens	Softens	Softens	Swells	Softens	Swells	Softens	Swells
<b>Mineral Spirits</b>	No effect	Swells	Softens	No effect	No effect	No effect	No effect	No effect
<b>Soapy Water</b>	No effect	No effect	No effect	No effect	No effect	No effect	No effect	No effect

\*Visual observations of tape bonded to steel panels and immersed totally in solvent/fuel for 24 hours.

## Application Techniques

- Bond strength is dependent upon the amount of adhesive-to-surface contact. Firm application pressure develops better adhesive contact and helps improve bond strength.
- To obtain optimum adhesion, the bonding surface must be clean, dry, and well unified. Some typical surface cleaning solvents are isopropyl alcohol and heptane.\*  
\*Be sure to follow the solvent manufacturer’s precautions and directions for use when handling solvents.
- Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

## Storage

Store in the original cartons at 60-80°F (15-27°C) and 50% relative humidity.

## Shelf Life

18 months from date of manufacture.

# 3M™ Single-Coated Foam Tapes

4100 • 4300 • 4500 • 4700 Series

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## Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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## Warranty and Limited Remedy

Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective within the warranty period, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to replace the product or refund the purchase price.

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## Limitation of Liability

Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

**ISO 9001:2000**

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



### Industrial Adhesives and Tapes Division

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