3M Scotchmate[™] Reclosable Fasteners SJ3571 (nylon loop)/ SJ3572 (nylon hook)

Technical Data			<i>∧</i> ' <i>∨</i>	October, 2002
Product Description	3M [™] Scotchmate [™] Reclos zippers, screws, snaps, hool product assembly, smoother performance in many applic of two strips of nylon fabric Simply pull the strips apart	ks and mo r and clear cations. The which er	re. They offer greater d ner exterior surfaces and he Scotchmate hook and gage to form a quick fa	esign flexibility, faster d improved product d loop fasteners consis
	The woven hook is covered (46/sq. cm.). The woven loc loops, providing for thousar are preshrunk to insure max	op is cover nds of ope	red with thousands of senings and closings (cyc	oft, pliable napped cles). The hook and loo
	These hook and loop fasten acrylic pressure sensitive ac and humidity. This adhesive variety of substrates. For att	lhesive de e is especi	signed to function over ally suited for attachme	a range of temperature
AN AN	energy substrates such as po necessary or you can evalua adhesives.	olyethylen	e or polypropylene, sur	face priming may be
Product Construction	energy substrates such as ponecessary or you can evaluate adhesives.	olyethylen ate our lind al information	e or polypropylene, sur e of Scotchmate fastene	face priming may be ers with rubber based
Product Construction	energy substrates such as ponecessary or you can evaluate adhesives.	olyethyler ate our line al informational not be	e or polypropylene, sur e of Scotchmate fastene tion and data should be o	face priming may be ers with rubber based considered representativ
Product Construction	energy substrates such as ponecessary or you can evaluate adhesives.	olyethyler ate our line al informational not be	e or polypropylene, sur e of Scotchmate fastene tion and data should be o e used for specification p Scotchmate SJ3571 (Loop) Scotchmate SJ3572 (Hook) nylon 6 hook, n all nylo	face priming may be ers with rubber based considered representativ urposes. Scotchmate SJ3571P (Loo Scotchmate SJ3572P (Hoo ylon 6.6 weave on 6,6
Product Construction	energy substrates such as ponecessary or you can evaluate adhesives.	al information ould not be Hook Loop	e or polypropylene, sur e of Scotchmate fastene tion and data should be o e used for specification p Scotchmate SJ3571 (Loop) Scotchmate SJ3572 (Hook) nylon 6 hook, n	face priming may be ers with rubber based considered representativ urposes. Scotchmate SJ3571P (Loo Scotchmate SJ3572P (Hoo ylon 6.6 weave on 6,6 ylic
Product Construction	energy substrates such as ponecessary or you can evaluate adhesives.	al information ould not be Hook Loop	e or polypropylene, sur e of Scotchmate fastene tion and data should be o e used for specification p Scotchmate SJ3571 (Loop) Scotchmate SJ3572 (Hook) nylon 6 hook, n all nylo	face priming may be ers with rubber based considered representative urposes. Scotchmate SJ3571P (Loo Scotchmate SJ3572P (Hoc ylon 6.6 weave on 6,6 ylic ite, Beige 2.4 mm)
Product Construction	energy substrates such as por necessary or you can evaluate adhesives. Note: The following technicate or typical only and sho Fastener Products Material of Construction	Adhesive	e or polypropylene, sur e of Scotchmate fastene tion and data should be of e used for specification p Scotchmate SJ3571 (Loop) Scotchmate SJ3572 (Hook) nylon 6 hook, n all nylo Acr Black, Wh 3/32" (2	considered representative urposes. Scotchmate SJ3571P (Loo Scotchmate SJ3572P (Hoo ylon 6.6 weave on 6,6 ylic ite, Beige 2.4 mm) 3.2 mm) 2.4 mm)
Product Construction	energy substrates such as ponecessary or you can evaluated adhesives.	Adhesive	e or polypropylene, sur e of Scotchmate fastene tion and data should be of e used for specification p Scotchmate SJ3571 (Loop) Scotchmate SJ3572 (Hook) nylon 6 hook, n all nylo Acr Black, Wh 3/32" (2 4/32" (3 3/32" (2	face priming may be ers with rubber based considered representative urposes. Scotchmate SJ3571P (Loo Scotchmate SJ3572P (Hoo ylon 6.6 weave on 6,6 ylic ite, Beige 2.4 mm) 3.2 mm) 2.4 mm) n) for 4" wide (0.06 g/cm ²)

a) Other colors are available as special orders. 3M recommends the user to evaluate the products to see if it meets their color requirements. See your 3M authorized distributor or 3M representative for color selection guide and minimum requirements.

b) Thickness depends upon the amount of compression load on the pieces. All thickness and weight values are with the liner removed.

Scotchmate[™] Reclosable Fasteners SJ3571 (nylon loop)/

SJ3572 (nylon hook)

Typical Closure and System Performance Physical Properties and Performance Characteristics Typical performance characteristics shown below were measured under controlled laboratory conditions of 72°F (22°C) and 50% Relative Humidity to obtain maximum reliability. The user should evaluate products in the actual application to ensure suitable performance for the intended use.

Note: The following technical information and data is intended as a user guide representing typical performance and should not be used as product specifications.

	System Performance			
	Scotchmate SJ3571 Loop engaged to Scotchmate SJ3572 Hook	Scotchmate SJ3571 Loop engaged to to Dual Lock SJ3560ª		
TENSILE (Rigid to Rigid Substrates)	lbs _F /sq inch (kNewtons/m ²):			
Dynamic Tensile Engagement Strength	< 1.0 (6.9)	< 1.0 (6.9)		
Dynamic Tensile Disengagement ^b	7.5 (52)	39.8 (274)		
Static Tensile Holding Power	Holds 2.2#/in ² (155 grams/cm ²) for indicated time and temperature			
158°F	= 100 minutes	10,000 minutes		
200°F		10,000 minutes		
100°F/100% RH	1 100 minutes	10,000 minutes		
SHEAR (Rigid to Rigid Substrates)	lbs _F /sq inch (ł	lbs _F /sq inch (kNewtons/m ²):		
Dynamic Shear (1" x 1" overlap) ^b	4.8 (33)	45.6 (315)		
Static Shear Holding Power	Holds 2.2#/in ² (155 grams/cm ²) for indicated time and temperature			
158°F	= 10,000 minutes	10,000 minutes		
200°F	= 10,000 minutes	10,000 minutes		
100°F/100% RH	H 10,000 minutes	10,000 minutes		
PEEL AND CLEAVAGE	Pounds/inch width (grams/cm width)			
Peel Strength ("T" Peel, Flexible to Flexible)	1.3 (223.1)	3.0 (527.9)		
Peel Strength (90° Peel, Flexible to Rigid)	1.8 (313.2)	4.6 (821.4)		
ENGAGED THICKNESS ^c (Nominal without liner)	Inches (mm) ± Tolerance 0.10 (2.5) to 0.21 (5.3) ± 15% 0.17 (4.3) to 0.24 (6.1) ± 20%			
	5,000	50		
SHELF LIFE®	Two Years	Two Years		

Note: Long Term Static Load: Conditions such as temperature variations, engagement area, closure pressure and vibrations or side to side movement after engagement or exposure to prolonged periods of moisture or other environmental factors can affect the closure strength and long term static load performance. Fasteners may slip or creep in the direction of the static load forces when subjected to static loads at temperatures or weights greater than indicated. The user is responsible for designing the amount of fastening area based upon the specific conditions for the application. Four square inches of fastening area per pound of static load is suggested as a starting point for such evaluations.

a) The use of Scotchmate engaged to 3M[™] Dual Lock Reclosable Fasteners provides increased strength over standard 3M[™] Scotchmate[™] Reclosable Fasteners. Scotchmate to Dual Lock combinations provide fewer reclosures compared with Scotchmate only systems. Due to the higher strength of Scotchmate mated to Dual Lock, extra care should be given to ensure the maximum bond strength is obtained to the substrates being joined. Failure to obtain bond strengths sufficiently high to the substrate may cause the fastener to release from the substrate upon disengagement.

- b) 3MTM ScotchmateTM Reclosable Fasteners SJ3571/72 and 3MTM Dual LockTM SJ3560 are engaged with firm pressure and disengaged, peeled or cleaved at the rate of 12 inches (305 mm) per minute.
- c) Engaged thickness is highly dependent upon the compression loading or separation forces.
- d) Cycle Life is the number of peel cycles (openings and closings) that the fastener is subjected to while maintaining 50% or greater of the original peel values.
- e) Shelf life is from date of manufacture when stored in original packaging at 72°F (21°C) and 50% relative humidity.

$\textbf{Scotchmate}^{{}^{\scriptscriptstyle{\text{TM}}}}\textbf{Reclosable Fasteners}$

SJ3571 (nylon loop)/ SJ3572 (nylon hook)

Additional Performance Characteristics	Note: The following technical information and data is intended as a user guide representing typical performance and should not be used as product specifications.
	Solvent Resistance: The nylon components resist occasional attack by most common solvents and alkaline solutions. Acid solutions may cause deterioration of the fastener. The adhesive on 3M TM Scotchmate TM Reclosable Fastener SJ3571/72 is resistant to many common laboratory solvents and transportation fluids (gasoline, motor oil, etc.).
	Plasticizer Resistance: The adhesive on Scotchmate SJ3571/72 has good resistance to plasticizers found in many common flexible vinyls or other materials containing high levels of plasticizing materials. If greater plasticizer resistance is desired 3M TM Scotchmate TM SJ3522/23 or many of our 3M TM Dual Lock TM products can be evaluated.
	Flammability Resistance: Scotchmate SJ3571/72 meet the requirements of FMVSS-302 when attached to a thin metal panel. If you need 3M TM Scotchmate TM Reclosable Fasteners that meet other standard flammability tests (such as FAR 25.853, ASTM E-162, ASTM E-662, BSS-7239 and others), it is suggested that you refer to our Flame Resistant Reclosable Fasteners Data Page (70-0707-3992-8).
	Environmental Effects: Temperature down to -20°F (-29°C) increases the typical closure strengths. Scotchmate's SJ3571/72 adhesive has been formulated to withstand typical outdoor temperature, humidity and ultraviolet exposure conditions. Many of our Dual Lock products also provide good to excellent performance in outdoor conditions.
	Water (Humidity) Resistance: Closure strength of nylon hook and loop fasteners decreases after prolonged exposure to water due mainly to water absorption by the cut nylon ends for hook products. Closure strength is regained when dried. Improved water resistance of the closure can be obtained by using polyester hook and loop (Scotchmate SJ3576/77, SJ3586FR/87FR) or our polyolefin based Dual Lock. Once bonded the adhesive has high resistance to moisture under typical use conditions.
	Volatile Outgassing: Volatile outgassing, as per ASTM E595, is one important test in determining the suitability of materials for spacecraft. Generally products with acrylic or no adhesive have lower volatile outgassing values. Products tested at the Goddard Space Flight Center can be found at the following web site: <u>http://epims.gsfc.nasa.gov/og-cgi/sectionb/sectionb</u> html.sh.

Scotchmate[™] Reclosable Fasteners

SJ3571 (nylon loop)/ SJ3572 (nylon hook)

ble Sizes ^a	Scotchmate S Standard Widths ^a in. ± 1/16" (mm) ± 1.6	SJ3571 (Loop) and SJ3 Selvedge Edge ^b	572 (Hook) Extended Liner ^b	Scotchmate SJ3571P (Loop) Scotchmate SJ3572P (Hook)		
	1/2" (12.7 mm)	One Edge	One Edge			
	5/8" (15.9 mm)	One Edge	One Edge			
	3/4" (19 mm)	One Edge	One Edge			
	1" (25.4 mm)	One Edge	One Edge	1" (25.4 mm)		
	1 ¹ /4" (31.8 mm)	Two Edges	Two Edges			
	1 ¹ /2" (38.1 mm)	Two Edges	Two Edges	1 ¹ /2" (38.1 mm)*		
	2" (50.8 mm)	Two Edges	Two Edges	2" (50.8 mm)*		
	2 ¹ /2" (63.5 mm)	One Edge	One Edge			
	3" (76.2 mm)	One Edge	One Edge			
	4" (101.6 mm)	Two Edges	Two Edges	4" (101.6 mm)*		
	Roll Lengths ^a Yards (Meters)					
	25 yds. (22.8 meters)					
	50 yds. (45.7 meters)			50 yds. (91.4 meters)		
	Fabricated Forms ^c	See Below for Standa	ard FormsCut Pieces			
	a) All of the 3M [™] Scotchmate [™] SJ3571/72 products are available on 3" core. Not all roll lengths may be available in all standard widths or colors. Contact your 3M authorized distributor or 3M representative for details on supplying special sizes.					
	in all standard widths o	r colors. Contact your 3M at	are available on 3" core	5,		
	in all standard widths o supplying special sizes	r colors. Contact your 3M at	are available on 3" core uthorized distributor or 3	0 ,		
	in all standard widths o supplying special sizes b) Selvedge edges and ex c) 3M™ Scotchmate™ Re product design and ma	r colors. Contact your 3M at tended liner availability. Oth eclosable Fasteners can be	are available on 3" core uthorized distributor or 3 er configurations may b fabricated in many custo t your local 3M authoriz	M representative for details on e possible as a special order. om shapes and sizes to fit your		
	in all standard widths o supplying special sizes b) Selvedge edges and ex c) 3M™ Scotchmate™ Re product design and ma	r colors. Contact your 3M at tended liner availability. Oth eclosable Fasteners can be nufacturing process. Contact	are available on 3" core uthorized distributor or 3 er configurations may b fabricated in many custo t your local 3M authoriz	M representative for details on e possible as a special order. om shapes and sizes to fit your ed converter or 3M representative fo		
	in all standard widths o supplying special sizes b) Selvedge edges and ex c) 3M™ Scotchmate™ Re product design and ma additional options, conf	r colors. Contact your 3M at stended liner availability. Oth eclosable Fasteners can be nufacturing process. Contac igurations and ordering info	are available on 3" core uthorized distributor or 3 her configurations may b fabricated in many custo try our local 3M authoriz rmation. Fabricated F eces in black loop, se	M representative for details on e possible as a special order. om shapes and sizes to fit your ed converter or 3M representative for		
IN S	in all standard widths o supplying special sizes b) Selvedge edges and ex c) 3M [™] Scotchmate [™] Re product design and ma additional options, conf Product Number Scotchmate SJ3571	r colors. Contact your 3M at tended liner availability. Oth eclosable Fasteners can be nufacturing process. Contac igurations and ordering info 1/2" x 2" individual cut pi 1 ³ /4" x 2" individual cut p	are available on 3" core uthorized distributor or 3 her configurations may b fabricated in many custo t your local 3M authoriz mation. Fabricated F eces in black loop, se ieces in black loop, se e loop on 50 yard roll,	M representative for details on e possible as a special order. om shapes and sizes to fit your ed converter or 3M representative for orms lvedge edge and extended liner.		
Ĭ	in all standard widths o supplying special sizes b) Selvedge edges and ex c) 3M [™] Scotchmate [™] Re product design and ma additional options, conf Product Number Scotchmate SJ3571	r colors. Contact your 3M an tended liner availability. Oth eclosable Fasteners can be nufacturing process. Contact igurations and ordering info 1/2" x 2" individual cut pi 1/3/4" x 2" individual cut pi 1/2" x 1" cut pieces, whith and extended liner on or 1/2" x 2" individual cut pi	are available on 3" core uthorized distributor or 3 fabricated in many custo t your local 3M authorize mation. Fabricated F eces in black loop, se ieces in black loop, se e loop on 50 yard roll, he side. eces in black hook, se	M representative for details on e possible as a special order. om shapes and sizes to fit your ed converter or 3M representative for orms lvedge edge and extended liner. lvedge edge and extended liner.		

Attachment Techniques

The following information is intended to assist the designer considering the use of Scotchmate Fasteners. Final product performance depends on actual conditions, including the fastener selected, the conditions in which the fastener is applied and the time and environmental conditions in which it is expected to perform. Because many of these factors are uniquely within the user's knowledge and control, it is required 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 and desired end use.

As a general rule, four square inches of fastener area per pound of static load to be supported is suggested as a starting point for evaluation. More or less area may be needed depending on specific conditions or end use applications.

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SJ3571 (nylon loop)/ SJ3572 (nylon hook)

Attachment Techniques (continued)	There are typically six different methods for attaching 3M TM Scotchmate TM Reclosable Fasteners to various surfaces. For complete details on techniques and options for attaching Scotchmate or Dual Lock Reclosable Fasteners please see technical bulletin (70-0709-3929-6). The most important techniques for 3M TM Scotchmate TM Reclosable Fasteners SJ3571/72 are summarized below.						
	have equilibrated for before application.	Pressure Sensitive Adhesive attachment: The fasteners and substrate surfaces should have equilibrated for a minimum of 1 hour at temperatures of 68°F (20°C) or greater before application. These adhesive backed fasteners should be applied to surfaces that are smooth, dry and free of oils, mold release agents or other surface contaminants.					
	The substrate should be cleaned to remove any surface contaminants with an appropriate cleaning method for the customer's substrate, type and quantity of surface contaminants that need to be removed. Note: Be sure to follow all government regulations and the manufacturer's precautions and directions for use when using solvents or other cleaning methods.						
	 After the substrate is clean, the liner is removed from the fastener and without touching the adhesive, the fastener is applied to the surface using firm roller pressure to help ensure complete adhesive contact to substrate. Adhesive bond strength increases with time, as the adhesive flows into the substrate structure. Handling strength is achieved immediately. Approximately 50% of ultimate bond strength is achieved at room temperature in the first 20 minutes, 90% after about 24 hours and 100% after about 72 hours. Heat (Press) Bonding: Because of the higher temperature rating of the adhesive on Scotchmate SJ3571 (Loop) and SJ3572 (Hook) the use of press bonding to gain improved strength the fabrics and similar substrates may have limited success and should be thoroughly evaluated before use in production. 						
						by mechanically at	chment: The bond strengt ttaching it to difficult to a g staples, or similar mecha
Application Ideas	including, but not l depend on actual c evaluate the 3M pr	1/72 can provide a firm a limited to those listed bela conditions within any spec roduct to determine wheth e user's method of applica	ow. Because product cific application, it is her it is fit for a partic	t performance will s essential that the user			
Application Ideas	including, but not l depend on actual c evaluate the 3M pr and suitable for the	limited to those listed belo conditions within any spec roduct to determine wheth e user's method of applica	ow. Because product cific application, it is ner it is fit for a parti- ation. Plastics	t performance will s essential that the user cular material purpose			
Application Ideas	including, but not l depend on actual c evaluate the 3M pr and suitable for the CARC Paint	limited to those listed belo conditions within any spec roduct to determine wheth e user's method of applica Alkyd Enamel Paint	ow. Because product cific application, it is ner it is fit for a parti- ation. Plastics Acrylic	t performance will s essential that the user cular material purpose ABS			
Application Ideas	including, but not l depend on actual c evaluate the 3M pr and suitable for the CARC Paint Glass	limited to those listed belo conditions within any spec roduct to determine wheth e user's method of applica Alkyd Enamel Paint Sealed Wood	ow. Because product cific application, it is ner it is fit for a parti- ation. Plastics	t performance will s essential that the user cular material purpose ABS Polystyrene			
Application Ideas	including, but not l depend on actual c evaluate the 3M pr and suitable for the CARC Paint	limited to those listed belo conditions within any spec roduct to determine wheth e user's method of applica Alkyd Enamel Paint	ow. Because product cific application, it is ner it is fit for a parti- ation. Plastics Acrylic Polycarbonate	t performance will s essential that the user cular material purpose ABS Polystyrene Rigid Vinyl			
Application Ideas	including, but not I depend on actual c evaluate the 3M pr and suitable for the CARC Paint Glass Fabrics	limited to those listed belo conditions within any spec roduct to determine wheth e user's method of applica Alkyd Enamel Paint Sealed Wood Bare Metal Not suggested for powder	ow. Because product cific application, it is ner it is fit for a parti- ation. Plastics Acrylic Polycarbonate r coated paints or low	t performance will s essential that the user cular material purpose ABS Polystyrene Rigid Vinyl			
Application Ideas	including, but not I depend on actual c evaluate the 3M pr and suitable for the CARC Paint Glass Fabrics Scotchmate SJ357	limited to those listed belo conditions within any spec roduct to determine wheth e user's method of applica Alkyd Enamel Paint Sealed Wood Bare Metal Not suggested for powder 1/72 has shown to be used	ow. Because product cific application, it is ner it is fit for a parti- ation. Plastics Acrylic Polycarbonate r coated paints or low a ful for:	t performance will s essential that the user cular material purpose ABS Polystyrene Rigid Vinyl surface energy materials.			
Application Ideas	including, but not I depend on actual c evaluate the 3M pr and suitable for the CARC Paint Glass Fabrics	limited to those listed belo conditions within any spec roduct to determine wheth e user's method of applica Alkyd Enamel Paint Sealed Wood Bare Metal Not suggested for powder 1/72 has shown to be used inface	ow. Because product cific application, it is ner it is fit for a parti- ation. Plastics Acrylic Polycarbonate r coated paints or low ful for: Attaching accessor	t performance will s essential that the user cular material purpose ABS Polystyrene Rigid Vinyl surface energy materials.			
Application Ideas	including, but not I depend on actual c evaluate the 3M pr and suitable for the CARC Paint Glass Fabrics Scotchmate SJ357 Anti-scratch su	limited to those listed bela conditions within any spec roduct to determine wheth e user's method of applica Alkyd Enamel Paint Sealed Wood Bare Metal Not suggested for powden 1/72 has shown to be used arface teriors	ow. Because product cific application, it is ner it is fit for a parti- ation. Plastics Acrylic Polycarbonate r coated paints or low ful for: Attaching accessor	t performance will s essential that the user cular material purpose ABS Polystyrene Rigid Vinyl surface energy materials.			

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SJ3571 (nylon loop)/ SJ3572 (nylon hook)

For Additional Information	To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit www.3M.com/adhesives. Address correspondence to: 3M Industrial Adhesives and Tapes Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.
Certification/ Recognition	MSDS: 3M has not prepared a MSDS for this product which is 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 product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.
	TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements.
	Military Spec. MIL-F-21840: 3M [™] Scotchmate [™] Reclosable Fasteners SJ3571/72 meet the physical requirements of MIL-F-21840, Type IA, II and III Class 1. Note that Class 5 requirements are met by mating Scothmate SJ3571 to SJ3576 or SJ3586FR.
	GM 2743M Type II: Scotchmate SJ3571/72 meet the requirements of GM2743M Type II.
	FMVSS-302: Scotchmate SJ3571/72 meet the requirements of FMVSS-302 when tested attached to a thin metal panel.
Important Notice	3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which 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.
Limitation of Remedies and Liability	If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, negligence, warranty, or strict liability.
	<u> </u>
	This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9002 and QS 9000 standards

3M

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