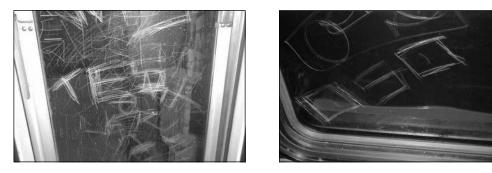
3M[™] Scotchgard[™] Multi-Layer Protective Film 1004

Technical Data				September, 2014	
Product Description	3M TM Scotchgard TM Multi-Layer Protective Films 1004 is an optically transparent, pressure-sensitive polyester film tapes designed to protect surfaces fr intentional and unintentional damage caused by scratching, etching, abrasion and graffiti. A damaged film layer can be quickly and easily removed, exposing a fres protective sheet.				
Product Construction	Backing	Adhesive		Sizes	
	Polyester	Acrylic		Sheets and Custom Sizes	
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.				
		1004	ASTM Test Met	hod	
	Number of Layers:	4			
	Film Thickness:	19.5 mils (0.5 mm)	D-3652		
	Base Layer Adhesion to Glass:	23 oz./in. (25 N/100 mm)	D-3330		
	Layer-to-Layer Adhesion:	11 oz./in. (12 N/100 mm)	D-3330		
	Visible Light Transmission:	90%	D-1003		
	Haze:	3%	D-1003		
	Clarity:	98%	D-1003	_	
Features	 layer protection. Thick polyester fill below. Film protects glass EtchTM. Film on glass meet 800-C requirement Durable top-coat la cleaning or abrasic Optimized adhesiv Optimized inter-lay removal. 	ayer prevents light scratc on.	typical scratche agents such as E 662, FMVSS-3 thes caused by i moval from glas m, adequate adl	es from affecting layers Bath Etch [™] or Armour 02 and Bombardier SMP Installation, wiping, ss and most other surfaces	

$\mathbf{3M}^{\text{\tiny TM}} \operatorname{\mathbf{Scotchgard}}^{\text{\tiny TM}} \operatorname{\mathbf{Multi-Layer Protective Film}}_{1004}$

Applications

3M[™] Scotchgard[™] Multi-Layer Protective Films 1004 protects glass, metal and other surfaces that are subject to damage from scratching, cutting, abrasion or chemical etching. Used for protecting smooth, flat surfaces such as public transportation windows and doors, transit kiosks, shelters, displays, mirrors and elevators.



Application Techniques	• For best results, surface must be clean and free of dirt, debris and oils and should be applied when surface temperature exceeds 50°F (10°C).		
	• Use of an application solution and 3M Heavy Duty Squeegee is suggested for easy positioning and squeegee application.		
	• Removal of film layers immediately after wet application is not recommended.		
	• Use of film removal tool is recommended for easy peel-back of target layer.		
	• For detailed Application Instructions and Tips, see 3M Technical Bulletin (70-0709-5334-7).		
Application Information	 Some acrylic and polycarbonate substrates have low surface energy coatings and/or may out-gas, leading to bubbling or adhesion issues. Test before use. 		
	• Not approved as glazing material for windshields requiring conformance to Federal Code 49 CFR 571.205. This standard applies to passenger cars, multi-purpose passenger vehicles, trucks, buses, motorcycles, slide-in campers and pick-up covers.		
	• May be used outdoors for short term use (typically <1 year) with minimal change in haze, clarity, light transmission and minimal adhesive residue left on most surfaces. Some exposure conditions (e.g. direct sun facing, higher temperatures) may shorten performance.		
	• Blocks more than 98% of UV light that can degrade plastics and fabrics.		
	• Note: Removal of film layer generates static charge.		
Storage	Store flat under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.F in the original carton.		
Shelf Life	To obtain best performance, use this product within 24 months from date of manufacture.		
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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.		
Product Use	Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.		
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	This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001-2008 standards		



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