3M Destructible Vinyl Label Material 7613

FOD# 1411

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Note: The follow	wing technical info		ld be considered representa		
Adhesion: ASTM D-3330 (modified): 90° peel, 12 inches/minute (305 mm/min).					
	15 min. dwell	72 hr. dwe Room Temper	ell 72 hr. dwell rature 158°F (70°C)		
Stainless steel	•	•	•		
Glass	•	•	•		
ABS (acrylonitrile butadiene styren	• e)	•	•		
Polycarbonate	•	•	٠		
Polypropylene	•	٠	٠		
HDPE (high density polyethylene)	•	•	•		
	or typical Adhesion: ASTM Stainless steel Glass ABS (acrylonitrile butadiene styrene Polycarbonate Polycarbonate HDPE (high density polyethylene)	or typical only, and should r Adhesion: ASTM D-3330 (modified): 15 min. dwell Room Temperature oz/in N/100 mm Stainless steel • Glass • ABS (acrylonitrile • butadiene styrene) Polycarbonate • Polypropylene • HDPE (high density • polyethylene)	15 min. dwell 72 hr. dwell Room Temperature Room Temperature oz/in N/100 mm Stainless steel • Glass • ABS (acrylonitrile • butadiene styrene) • Polycarbonate • Polypropylene • HDPE • (high density •		

* Not applicable. Label stock breaks when peeled.

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Environmental Properties	Note: The following tests are intended as a guide to product performance. Application testing is recommended using actual substrates, expected dwell times, and actual conditioning for best determination of product suitability.					
	Labels were applied to stainless steel and dwelled 24 hours at room temperature before conditioning. Results were considered acceptable if no significant loss of adhesion occurred and label stock destructed when peeled from the surface.					
	Chemical Resistance:*	Bond is secure when exposed to the following:				
		Automotive oil:	72 hours at 120°F (49°C)			
		Weak base:	4 hours at room temperature			
		Weak acid:	4 hours at room temperature			
		Sodium chloride solution (5%):	72 hours at room temperature			
		prolonged imn specific solver	nded for use with MEK (methyl ethyl ketone) or nersion in gasoline. Whenever exposure to nts is an important consideration, testing is I to assure adequate performance.			
	Water Resistance:	Withstands exposure to water at room temperature for 100 hours. Withstands exposure to 90°F (32°C) and 90% relative humidity for 168 hours.				
	Humidity Resistance:					
	Temperature Resistance:	Withstands short-term exposure (days, minutes) from -40°F (-40°C) to 300°F (149°C). Slight shrinkage and discoloration may occur at elevated temperatures.				
Application Ideas	Safety warning labels Licensing labels and tags					
	• Warranty seals	Calibration seals				
	• Package seals	• Ass	et labels			
Application	 Assume all surfaces to which these label materials will be applied are contaminated — metals may be oily or dusty, plastics may be coated with mold release agents, dirt, etc. Any surface contaminant will adversely affect adhesion and the ability to destruct; therefore, contaminants must be removed prior to application by wiping with a solvent such as isopropyl alcohol. Consult the manufacturer's Material Safety Data Sheet for proper handling and storage of solvents. 					
	• Application temperative to produce adequate tampering is attempt materials are over 50 increased application sufficient). The bond and high surface ene	adhesion and a ed. For best resu 0°F (10°C). High n pressure (firm l will increase ir rgy materials wi r best results, wa	nd dwell time are all important variables ssure the label fractures when removal or alts, the label should be applied when all her initial bonds can be achieved through hand or squeegee pressure should be a time, depending on the substrate. Metals ill develop bonds faster than low surface ait 24 hours (at room temperature) before			

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Processing	• Press Printing: The controlled print surface makes this product ideal for high quality graphics. See the ITSD Technical Bulletin for a current listing of recommended inks (category: Vinyl Press Printable).
	• Die-cutting: Due to the fragile nature of the facestock, special handling (wider label matrix and wider edge trim to aid matrix stripping) should be considered when designing and processing fragile labels. For specific tips, see the ITSD Technical Bulletin "Die-cutting Fragile Label Stocks."
	• Dispensing: The combination of the fragile facestock and aggressive adhesive may present some difficulties in automatic dispensing. Testing with the intended application equipment and actual product samples are recommended before use.
	• Electronic Imaging: This product is compatible with a variety of wax, resin and hybrid ribbons. The following list of ribbons has been satisfactorily printed but is not intended to be all inclusive.
	 Armor* Ax R7+ ICS* CC-4099-1 IImak* SP 330, DC 330 Ricoh* B110A, B110C Sony* 4051, 4070, 4072, 5070 Zebra* 5095, 5555
	Not recommended for dot matrix / impact, ink jet, or laser printing.
Shelf Life	• Label material retains its performance properties for at least one year from date of manufacture if properly stored at 72°F (22°C) and 50% relative humidity. It is recommended that roll stock and converted labels be kept in plastic bags for best performance.
Product Suitability	• The destructibility of the label depends upon adequate adhesion of the label to the substrate. A sufficient bond may not develop on all surfaces due to low surface energy, contaminated, or textured surfaces (see Application section for some suggested techniques). It is important to determine the suitability of the product in the intended application by carefully pretesting with application surfaces and real life conditioning.
	• The primary function of the product is to produce a tamper-indicating label or seal by causing the label to fracture when removal from the substrate is attempted. Since no tamper-indicating feature is 100% tamper-proof, careful consideration must be taken when designing labels and seals. When the consequences of tampering could be severe, such as loss of life or significant monetary loss, these products are not recommended to be the sole means of package or product tamper indication. In these instances, additional methods in combination with the labels should be considered so that the tamper-indicating features are commensurate with the requirements of the application

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Technical Information and Data	The technical information and data, recommendations, and other statements provided are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed.
Product Use	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 th 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.
Warranty and Limited Remedy	The 3M product will be free from defects in material and manufacture for a period of one (1) year form the date of manufacture. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, 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 method of application. If the 3M product is defective within the warranty period stated above, your exclusive remedy and 3M's sole obligation shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product.
Limitation of Remedies and Liability	Except where prohibited by law, 3M will not be liable for any loss or damage arising form the 3M product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including contract, warranty, negligence, or strict liability.
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	This Industrial Tape and Specialties Division product was manufactured under a 3M quality system

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