3M Water Contact Indicator Tape 5557

Product Description	3M TM Water Contact Indicator Tape 5557 is a 10.2 mil thick printable, self-adhesive product that shows area specific, long lasting indication when contacted by water. When liquid comes in contact with the product, the color RAPIDLY changes from white to red . This product is designed to withstand heat and humidity aging without giving water indication and it will continue to show indication even after prolonged submersion in water. The construction is readily die cuttable, making small custom shapes easy to produce. The adhesive is a high performance acrylic protected by a silicone coated film release liner.					
Product Construction Typical Physical Properties	Backing	Top Film	Adhesive	Color	Standard Roll Length	
	Paper	Polyester	Acrylic	White	12 in. x 180 yd.	
			ASTM Test Method D-3330			
	Note: The following technical information and data is based on limited 3M testing conditions and should not be used for specification purposes.					
	Adhesion to Stainless Steel: 82 oz./in. width (88 N/100 mm) (90° Peel Adhesion, 12 in./min. peel rate, 72 hr. Dwell)		(88 N/100 mm)	D-3330		
	Adhesion to Polycarbonate: (90° Peel Adhesion, 12 in./min. peel rate, 72 hr. Dwell)		47 oz./in. width (52 N/100 mm)		D-3330	
	Tape Thickness:		10.2 mils (0.259 mm)		D-3652	
	Release Liner Thickness:		2.0 mils (0.051 mm)		D-3652	
	Humidity Resistance:*					
	Control, t = 0	days				
	Control, t = 0 days					
	Indicator w/1	drop H ₂ O for	rop H ₂ O for			
	one minute a	t arrow.				
	7 days @ 55°C, 95% R.H.					
	7 days @ 55° indicated w/1 one minute a	drop H ₂ O for				
	*Tape is applied to polycarbonate panel and hung vertically in heat/humidity chamber.					

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General	• Tape may be die cut using rotary die cutting process.					
	• Substrate should be smooth, clean, dry and oil-free to insure good wet-out and adequate adhesion.					
	• Adhesive should not be applied at temperatures < 50°F (10°C) [best if room temperature or higher].					
	 Maximum roll length depends upon width. Maximum roll width = 12 in. (304.8 mm) 					
						• Temperature resis minutes or hours.
	Application Ideas	as cell phones, PI	ntact indicator in handheld or portable electronic devices such DA's, pagers, MP3 players, game players, CD players, cordless radios, laptops, digital or film cameras, video cameras, etc.			
	• Other application is desired.	s where positive indication of water or aqueous solution contact				
Features	Features	Benefits				
	Film top layer	Printable by thermal transfer, flexographic, and screen printing methods. Can be used for identification.				
		Top coated film for improved ink receptivity.				
		Provides protection from soiling and moisture during handling. Indication remains after prolonged immersion.				
	Paper backing	Highly absorbent, quickly transports water to show indications.				
		Does not falsely indicate water contact in high humidity environments.				
		Performance not degraded by past high humidity exposures.				

	Rotary die cuttable. Can readily form a variety of labels.
Acrylic adhesive	Excellent UV, chemical, temperature resistance.
	Very high bond strength to most surfaces including low

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Underwriters Laboratories Inc.	 3M[™] Water Contact Indicator Tape 5557 material is Recognized by Underwriters Laboratories Inc. Representative samples of this component have been evaluated by UL and meet applicable UL requirements. The UL recognition information per UL-969 "Marking and Labeling Systems" and file MH-16411 can be verified on-line at the Underwriters Laboratories Inc. Web Site. To view the verification information follow the path below: 				
	For 5557 per UL-969 the following entries apply:				
	"3M Brand 5557" unprinted label stock and printer/ink combination 6." Affixed to porcelain, aluminum, stainless steel, polyurethane powder paint, smooth acrylic powder paint, epoxy powder paint (smooth and textured), polyester powder paint (smooth and textured), alkyd paint, galvanized steel, nylon, polypropylene, polyphenylene oxide, polycarbonate, high density polyethylene (HDPE), acrylonitrile butadiene styrene (ABS) and high impact polystyrene, maximum temperature 60°C (140°F), minimum temperature -20°C (-4°F); polystyrene and low density polyethylene (LDPE), maximum temperature 40°C (104°F), minimum temperature -20°C (-4°F). Suitable where exposed to indoor dry location use.				
	3M Brand 5557 unprinted label stock and printer/ink combination 6.				
	"6) Armor "AXR-7", "AXR-7+", Dasco "DR-74", "DR-84", Great Ribbon "SDR", limak "SP-330", Intermec "053258-2", "054048-4", NCR "Matrix Resin", "PaceSetter", "Ultra V", Ricoh "B110C", "B110CX", Sato "Premier 1", Sony "4070", "Signature Series™ Resin", UBI "HR03", "HR04" thermal transfer ink with thermal transfer printing equipment."				
Storage	Store under normal conditions of 60° to 80° F (16° to 27° C) and 40 to 60% R.H. in the original carton.				
Shelf Life	To obtain best performance, use this product within 18 months from date of manufacture.				

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Regulatory Information	This product does not require Toxic Substance Control Act (TSCA) listing.			
For Additional Information	To request additional product information or to arrange for sales assistance, call toll free 1-800-251-8634. Address correspondence to: 3M Electronics Markets Materials Division, Building 21-1W-10, 900 Bush Avenue, 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.			
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Printed in U.S.A. ©3M 2004 70-0709-5279-4 (12/04)

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