3M Water Contact Indicator Tape 5557NP

Technical Data				March, 2006	
Product Description	3M [™] Water Contact Indicator Tape 5557NP quickly shows indication when contacted by water. When water comes in contact with the tape surface, it rapidly changes from white to red . The tape is designed to withstand heat and humidity aging without giving false indication. It will continue to show indication even afte prolonged submersion in water. The adhesive is a high performance acrylic protected by a silicone coated film release liner.				
Product Construction	Backing	Adhesive	Release Liner	Color	
		A 11	Polyester Film	White	
			and data should be conside		
	Note: The following or typical onl	g technical information y, and should not be u	and data should be conside and for specification purpose	s. ASTM Test Metho	
Typical Physical Properties	Note: The following	g technical information y, and should not be us s Steel: 82 oz./	and data should be conside sed for specification purpose	25.	
	Note: The following or typical onl Adhesion to Stainles	s Steel: 82 oz./ 2 hr. Dwell) 2 opnate: 47 oz./	and data should be conside and for specification purpose	s. ASTM Test Metho	
	Note: The following or typical onl Adhesion to Stainles (90° Peel Adhesion, 7 Adhesion to Polycart	g technical information y, and should not be us s Steel: 82 oz./ 2 hr. Dwell) ponate: 47 oz./ 2 hr. Dwell)	n and data should be conside and for specification purpose n. width (88 N/100 mm)	s. ASTM Test Method D-3330	
	Note: The following or typical onl Adhesion to Stainles (90° Peel Adhesion, 7 Adhesion to Polycart (90° Peel Adhesion, 7	g technical information y, and should not be us s Steel: 82 oz./ 2 hr. Dwell) 2 hr. Dwell) 2 hr. Dwell) 8.6 mile	n and data should be conside sed for specification purpose n. width (88 N/100 mm) n. width (52 N/100 mm)	s. ASTM Test Method D-3330 D-3330	
	Note: The following or typical onl Adhesion to Stainles (90° Peel Adhesion, 7 Adhesion to Polycart (90° Peel Adhesion, 7 Tape Thickness:	s Steel: 82 oz./ 2 hr. Dwell) 2 hr. Dwell) 2 hr. Dwell) 8.6 mile ness: 2.0 mile	n and data should be conside and for specification purpose n. width (88 N/100 mm) n. width (52 N/100 mm) s (0.218 mm)	ASTM Test Metho D-3330 D-3330 D-3652	
	Note: The following or typical onl Adhesion to Stainles (90° Peel Adhesion, 7 Adhesion to Polycark (90° Peel Adhesion, 7 Tape Thickness: Release Liner Thickr	s Steel: 82 oz./ 2 hr. Dwell) 2 hr. Dwell) 2 hr. Dwell) 8.6 mile ness: 2.0 mile	n and data should be conside sed for specification purpose n. width (88 N/100 mm) n. width (52 N/100 mm) s (0.218 mm) s (0.051 mm)	ASTM Test Metho D-3330 D-3330 D-3652	

Test circles are 1/2" diameter.

*Tape is applied to polycarbonate panel and hung vertically in heat/humidity chamber.

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 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). Not useful for indicating contact with other non-aqueous liquids such as oils and organic solvents. Standard roll size = 12" x 180 yards (304.8 mm x 165 m). 						
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phones, PDA's, pagers, MP3 players, game players, CD players, cordless phones, two-way radios, laptops, digital or film cameras, video cameras, etc.		• Standard roll size = 12" x 180 yards (304.8 mm x 165 m).				
	Application Ideas	phones, PDA's, pagers, MP3 players, game players, CD players, cordless phones,				

Key Attributes	Features	Benefits
	Paper backing	Highly absorbent, quickly transports water to show indication.
		Does not falsely indicate water contact in high humidity exposures.
		Performance not degraded by past high humidity exposures.
		Rotary die cuttable. Can readily form variety of labels.
	Acrylic adhesive	Excellent UV, chemical and temperature resistance.
		Very high bond strength to most surfaces including low surface energy plastics such as polypropylene and powder coatings.
	Polyester film liner	Excellent die cuttability.

Shelf Life

To obtain best performance, use this product within 12 months from date of manufacture and store under normal conditions of 60° to 80° F (16° to 27° C) and 40 to 60% R.H. in the original carton.

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Technical Information and Data	The technical information and data, recommendations, and other statements provided in this document are based on tests or experience which 3M belives to be reliable, but the accuracy or completeness of such information is not guaranteed.			
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 651-778-4244 or 1-877-369-2923. In Canada, phone: 1-800-634-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.			
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3M Electronics 3M Center, Building 21-1W-10, 900 Bush Avenue St. Paul, MN 55144-1000 1-800-251-8634 phone 651-778-4244 fax www.3M.com/electronics



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