3M Water Contact Indicator Tape 5557NP

Technical Data			March, 2006	
Product Description	3M TM 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 Adhes	sive Release Liner	Colo	
	Paper Acrylic	Polyester Film	White	
Typical Physical Properties		nformation and data should be consi Id not be used for specification purpo		
Typical Physical Properties	or typical only, and shou	d not be used for specification purpo	ASTM Test Metho	
			ses.	
	or typical only, and shound on typical only, and shound on the stainless Steel:	d not be used for specification purpo	ASTM Test Metho	
	or typical only, and show Adhesion to Stainless Steel: (90° Peel Adhesion, 72 hr. Dwell) Adhesion to Polycarbonate:	<i>d not be used for specification purpo</i> 82 oz./in. width (88 N/100 mm)	ASTM Test Metho D-3330	
	or typical only, and show Adhesion to Stainless Steel: (90° Peel Adhesion, 72 hr. Dwell) Adhesion to Polycarbonate: (90° Peel Adhesion, 72 hr. Dwell)	d not be used for specification purpo 82 oz./in. width (88 N/100 mm) 47 oz./in. width (52 N/100 mm)	ASTM Test Metho D-3330 D-3330	
	or typical only, and show Adhesion to Stainless Steel: (90° Peel Adhesion, 72 hr. Dwell) Adhesion to Polycarbonate: (90° Peel Adhesion, 72 hr. Dwell) Tape Thickness:	A not be used for specification purpo 82 oz./in. width (88 N/100 mm) 47 oz./in. width (52 N/100 mm) 8.6 mils (0.218 mm)	ASTM Test Metho D-3330 D-3330 D-3652	
	or typical only, and show Adhesion to Stainless Steel: (90° Peel Adhesion, 72 hr. Dwell) Adhesion to Polycarbonate: (90° Peel Adhesion, 72 hr. Dwell) Tape Thickness: Release Liner Thickness:	<i>d not be used for specification purpo</i> 82 oz./in. width (88 N/100 mm) 47 oz./in. width (52 N/100 mm) 8.6 mils (0.218 mm) 2.0 mils (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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General Information	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).			
	• 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).			
Application Ideas	• As a water contact indicator in handheld or portable electronic devices such as cell phones, PDA's, pagers, MP3 players, game players, CD players, cordless phones,			
	two-way radios, laptops, digital or film cameras, video cameras, etc.As a water contact indicator for other products with sensitivity to aqueous liquids.			

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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