

3M™ Water Contact Indicator Tape 5557

Product Description

3M™ Water Contact Indicator Tape 5557 is a 10.2 mil (259 micron) thick tape used to indicate water contact. The tape turns from white to red upon direct water contact.

Features and Benefits

Film Top Layer

- Printable by thermal transfer, flexographic, and screen printing methods
- Provides improved ink receptivity
- Provides protection from soiling and moisture during handling

Paper Backing

- Highly absorbent, transports water to show indications

Acrylic Adhesive

- Very high bond strength to most surfaces including low surface energy plastics such as polypropylene and powder coatings

Total Construction

- Rotary die cuttable
- UL-969 Compliant

Product Construction

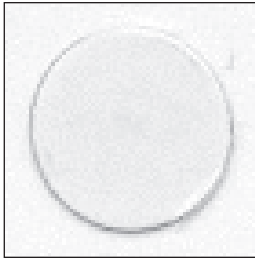
3M™ Water Contact Indicator Tape 5557	
Backing	Paper
Top Film	Polyester
Adhesive	Acrylic
Color	White
Standard Roll Length	180 yards



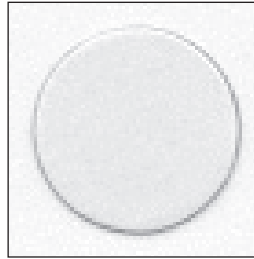
Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

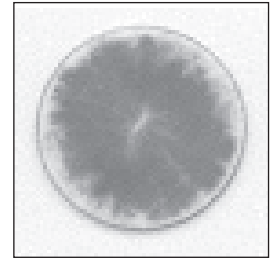
Property	Value	ASTM Test Method
Adhesion to Stainless Steel: (90° Peel Adhesion, 72 hr Dwell)	82 oz/in width (88 N/100 mm)	D-3330
Adhesion to Polycarbonate: (90° Peel Adhesion, 72 hr Dwell)	47 oz/in width (52 N/100 mm)	D-3330
Tape Thickness:	10.2 mil (0.259 mm)	D-3652
Release Liner Thickness:	2.0 mil (0.051 mm)	D-3652
Humidity Resistance:*	55°C, 95% R.H.	



0 hours exposure



7 days

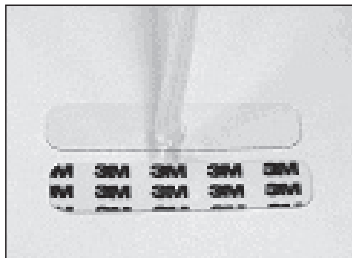


After water contact

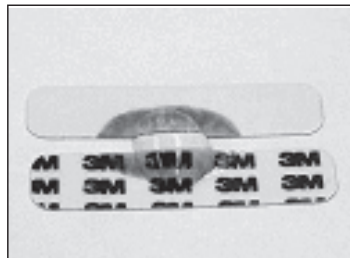
*Tape is applied to polycarbonate panel and hung vertically in heat/humidity chamber.

Indication Properties

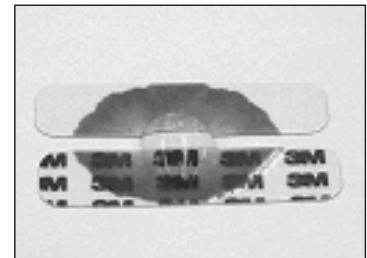
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Apply water to edge



15 seconds later



90 seconds later

General Information

- Tape may be die cut using rotary die cutting process.
- Substrate should be smooth, clean, dry and oil-free to ensure good wet-out and adequate adhesion.
- Adhesive should not be applied at temperatures < 10°C (50°F) [best if room temperature or higher].
- Maximum roll length depends upon width.
- Maximum roll width = 12 in. (304.8 mm).

Application Ideas

- Use as a water contact indicator in handheld or portable electronic devices such as smart phones, tablets and phablets, laptop computers and keyboards, wearable electronic devices, gaming and MP3 players, two-way radios and cordless phones, digital and video cameras, Li-MH batteries and chargers.

Storage and Shelf Life

The shelf life of 3M™ Water Contact Indicator Tape 5557 is 12 months from the manufacture date when stored in original cartons at 21°C (71°F) and 50% relative humidity.

Regulatory

For regulatory information about this product, contact your 3M representative.

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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Electronics Materials Solutions Division

3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
1-800-251-8634 phone
651-778-4244 fax
www.3M.com/electronics

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