

**Medical Materials & Technologies**

**3M™ 9984 Diagnostic Microfluidic Surfactant Free Hydrophilic Film**



**Product Description:**

3M™ 9984 diagnostic hydrophilic film consists of a clear polyester film on a roll coated on one side with a 3M hydrophilic technology. The hydrophilic treatment is surfactant free. The product is designed for use in health care medical devices such as test strip and lab-on-a-chip applications.

**Features and Benefits:**

- Hydrophilic
- Transparent
- Non-hemolytic
- Low Autofluorescence
- Surfactant free
- Non-toxic to mammalian cells
- No significant outgassing < 400 °C
- Dimensionally stable

Composition:



3.9 ± 0.15 mils (0.01 ± 0.004 mm) Transparent polyester with 3M proprietary hydrophilic treatment, on one side

**Product Properties**

Contact Angle	Maximum 20° on treated side
Light Transmission	Minimum 90%
Heat Shrinkage	Maximum – 0.7% - MD & CD [150 °C for 15 minutes]
Break Strength (Tensile)	Minimum - 85 lb/in (38.6 kg/25.4 mm) (378.1 N/25.4 mm) - MD Minimum - 103.7 lb/in (47.0 kg/25.4 mm) (461.3 N/25.4 mm) - CD
Break Elongation	Minimum - 90% - MD; 60% - CD
Autofluorescence	Minimal at Emissions: 400-800 nm / Excitations: >400 nm

**Roll Description:**

Roll Length	Maximum 1500 yd (1372 m) ± 2%
Roll Width	Minimum 2 in (51 mm); Maximum 49.0 in (124.5 cm) ± 0.125 in (3.2 mm)
Splices per Roll	Maximum 1 every 500 yd (457 m); up to 3 per 1500 yd (1372 m)

Note: Core options are fiber or plastic 3-in (76 mm) and 6-in (152 mm) diameter.  
Core material and diameter must be specified in special instructions of order set.

**Recommended Storage Conditions & Shelf Life:**

Product as supplied in original packaging will maintain stated properties for a period of 24 months from date of manufacture when stored at room temperature 68-77 °F (20-25 °C).  
When not in use, keep product wrapped in moisture impervious barrier and avoid excessive heat and humidity.

Please see reverse side for important product, safety and warranty information.

**Product and Safety Information:** User is solely responsible for determining the suitability of 3M samples and products for the intended use including any necessary safety or toxicity assessment. 3M will provide Material Safety Data Sheets or equivalent and summary results of toxicity testing upon request. In every case before using any product in full scale production users should conduct their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operating conditions.

**Notice:** Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendations to practice any invention covered by any patent, without authority from the owners of this patent.

#### **Warranty Information**

All statements, technical information and recommendations herein are based on tests 3M believes to be reliable, but the accuracy or completeness thereof is not guaranteed. 3M warrants only that products will meet 3M's specifications at the time of shipment to the customer. 3M does not offer any other warranty and does not warrant the performance, safety or such other characteristics of products in combination with other materials. 3M specifically DOES NOT warrant products for any intended or unintended uses (whether or not foreseeable); for compatibility or suitability with other components or compatibility with any methods of manufacture or conversion. The foregoing warranty is made in lieu of all other warranties, expressed or implied, including the implied warranties of merchantability, fitness for a particular purpose and freedom from non-infringement.

**Limitation of Remedies:** If products are proven not to meet 3M's specifications, the sole and exclusive remedy available and 3M's only obligation shall be, at 3M's option, to replace such quantity of Products which are proven out of specification or to refund the purchase price paid for Products.

**Limitations of Liabilities:** The remedies provided herein are exclusive remedies against 3M for any alleged or actual nonconformance to specifications or defect or other failure in products or for 3M's performance of its supply obligations. Under no circumstances is 3M liable for any direct, indirect, incidental, special or consequential damages (including lost profits) in any way related to the product under any theory of law including, but not limited to, negligence and strict liability.

#### **Ordering Information**

To place an order, call our Customer Service at: 800-742-1994 (U.S.). For all orders outside the United States, please contact your local country representative or check out [3M.com/MedTechFindaRep](http://3M.com/MedTechFindaRep) for your region's contact information.

To have a sales representative contact you, to request samples or clinical and safety summaries, please contact us at 3M HELPLINE 800-228-3957 (U.S.) or check out [3M.com/MedTechContactUs](http://3M.com/MedTechContactUs) for your region's contact information.

Visit our website: [www.3M.com/MedTech](http://www.3M.com/MedTech) for product and services information, news, events, new product highlights or to make a direct inquiry.



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