



**Technical Information Sheet**

**Product Number 9962**

**3M™ Anti-Fog Hydrophilic Film**

Effective Date: March 2008

Supersedes all previous information sheets

**Product Description:**

3M™ #9962 Anti-Fog Hydrophilic Film consists of an optically clear hydrophilic-treated polyester film. The hydrophilic, anti-fog treatment is the same on both sides of the film.

**Features and Benefits:**

- Optically Clear
- Dimensionally Stable
- Non-leaching hydrophilic treatment for anti-fogging & lateral fluid transport

**Composition:**

<b>Film</b>	3.9 ± 0.25 mils (0.1 ± 0.01 mm) Transparent Polyester with 3M Proprietary Hydrophilic Treatment, both sides
-------------	---

**Product Properties<sup>1</sup>:**

<b>Fogging Properties</b>	None at 90°C (195°F)
<b>Light Transmission</b>	92.5% at 700 nm; 82.5% at 400 nm (typical)
<b>Break Strength</b>	Minimum - 85 lb/in (38.5 Kg/25 mm) (378 N/25 mm) - MD Minimum - 103.7 lb/in (47 Kg/25 mm) (461 N/25 mm) - CD
<b>Break Elongation, %</b>	Minimum - 90% - Machine Direction; 60% - Cross Direction
<b>Heat Shrinkage</b>	Maximum - 1.1% - MD & CD [150°C for 15 minutes]

<sup>1</sup> Most 3M test methods are available upon request.

**Roll Description:**

<b>Roll Length</b>	Maximum 2600 yd (2377 m) ± 2%
<b>Roll Width</b>	Minimum 2 in (51 mm); Maximum 49.0 in (125 cm) ± 1/8 in (3.2 mm)
<b>Splices per Roll</b>	Maximum 1 per every 500 yd (457 m); up to 5 per 2600 yd (2377 m) *There may be scratches on the film within 5 yards (4.5 m) of the splice that is compensated with extra material at end of roll.

**Note:** Product can be supplied on 3-in (76 mm) or 6-in (152 mm) cores. Please specify at time of order.

**Storage Conditions/Shelf Life**

Product as supplied in original packaging will maintain stated test properties for a period of one year from date stamped on shipping container when stored at temperatures between 50-80°F (10-27°C) and a relative humidity between 40-60 percent. **The product must stay wrapped with a moisture impervious barrier at all times.**

**Please see reverse side for important product, safety & 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 and 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

Call us at Customer Service to place an order: 800-742-1994 (U.S.). Visit our website: [www.3M.com/medicalspecialties](http://www.3M.com/medicalspecialties) for product and services information, news about conferences we will be attending, new product highlights or to make a direct inquiry.

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 for international inquiries, please contact your local country representative. Our 3M Medical Specialties subsidiary contacts are listed below.

## International Locations

### Argentina

3M Argentina S.A.C.I.F.I.A.  
Tel.: 54-11-4339-2400  
Fax: 54-11-4339-2640

### Dominican Republic

3M Dominicana  
Tel: (809) 530-6560 X499  
Fax: (809) 530-2960

### Kazakhstan

3M Representation Office  
Tel: +7 3272 509 944  
Fax: +7 3272 509 573

### Poland

3M Poland Sp.z o.o.  
Tel: (48 22) 739 60 00  
Fax: (48 22) 739 60 01

### Thailand

3M Thailand Ltd.  
Tel: (66)2 260 8577 Ext.175  
Fax: (66)2 261 7535

### Australia

3M Health Care  
Tel: 1 300 363 878  
Fax: 1 800 060 888

### Finland

Suomen 3M Oy  
Tel.: 358-9-52-521  
Fax: 358-9-512-29-44

### Korea

3M Korea Ltd.  
Tel: 82-2-3771-4286  
Fax: 82-2-786-2825

### Portugal

3M Portugal  
Tel: 351-21-3134500  
Fax: 351-21-3134680

### Taiwan

3M Taiwan Ltd.  
Tel: 886-2-2704-9011  
Fax: 886-2-2706-0355

### Belgium

3M Belgium N.V./S.A.  
Tel: 32-2-722-5111  
Fax: 32-2-720-0225

### France

Laboratoires 3M Santé  
Tel: 33-1-3031-8376  
Fax: 33-1-3031-8378

### Malaysia

3M Malaysia Sdn. Bhd.  
Tel: 6-03-7806 2888  
Fax: 6-03-7806 2902

### Russia

3M Russia  
Tel: 7 (495) 784-74-74  
Fax: 7 (495) 784-74-75

### Turkey

3M Turkey  
Tel: 9 (0212) 3507777  
Fax: 9 (0212) 2821742

### Brazil

3M DO Brasil Ltda.  
Tel: 55-19-864-7171  
Fax: 55-19-864-7848

### Germany

3M Medica  
Tel: 49 2131 14 40 00  
Fax: 49 2131 14 49 99

### Mexico

3M México, S.A. de C.V.  
Tel: +52-55-5270-0400  
Fax: +52-55-5270-0433

### Singapore

3M Technologies (S) Pte. Ltd.  
Tel: 65-6450-8866  
Fax: 65-6455-2130

### Ukraine

3M Ukraine  
Tel: +380 44 490 57 77  
Fax: +380 44 490 57 75

### Canada

3M Canada  
Tel: 800 364-3577  
Fax: 800 341-4630

### Hong Kong

3M Hong Kong Ltd.  
Tel: (852) 2806 6111  
Fax: (852) 2234 6044

### Middle East

3M Gulf Ltd.  
Tel: 971-4-3670-777  
Fax: 971-4-3670-699

### Sri Lanka

3M Lanka (Pvt.) Ltd.  
Tel: (94) 11 2785701  
Fax: (94) 11 4410083-4

### United Kingdom & Ireland

3M Health Care Ltd.  
Tel: 44-1509-611-611  
Fax: 44-1509-237-288

### Chile

3M Chile S.A.  
Tel: (56-2) 4103000  
Fax: (56-2) 4103400

### Hungary

3M Hungária Kft.  
Tel: (36-1) 270-7777  
Fax: (36-1) 320-0951

### The Netherlands

3M Nederland B.V.  
Tel: 31-715-450-450  
Fax: 31-715-450-212

### Spain

3M España, S.A.  
Tel: 34-91-321-6000  
Fax: 34-91-321-6002

### Venezuela

3M Manufacturera Venezuela  
Tel: 58-241-8391911  
Fax: 58-241-8391928

### China

3M China Ltd.  
Tel: 86-21-6275-3535  
Fax: 86-21-5208-2205

### India

3M India Ltd.  
Tel: +91-80-2223 1414  
Fax: +91-80-22231431

### New Zealand

3M New Zealand  
Tel: 64-9-444 4760  
Fax: 64-9-443 7885

### Sweden

3M Svenska AB  
Tel: +46-8-92 21 00  
Fax: +46-8-92 24 22

### Viet Nam

3M Viet Nam Ltd.  
Tel: 84 8 640986  
Fax: 84 8 641024

### Colombia

3M Colombia S.A.  
Tel: 57-1 4108585  
Fax: 57-1 4161677

### Indonesia

PT 3M Indonesia  
Tel: (62-21) 520 3401  
Fax: (62-21) 520 3106

### Peru

3M Peru S.A.  
Tel: 511-224-2728  
Fax: 511-224-3171

### Switzerland & Eastern Europe

3M (Schweiz) AG  
Tel: +41 44 724 92 44  
Fax: +41 44 724 94 80

### Czech Republic

3M Cesko s.r.o.  
Tel: +420-261 380 111  
Fax: +420-261 380 110

### Italy

3M Italia SPA  
Tel: +39 2 7035-2406  
Fax: +39 2 7035-2484

### Philippines

3M Philippines  
Tel: (632) 8133781 to 95  
Fax: (632) 8145873 to 74

### Denmark

3M a/s  
Tel: 45-43-48-0100  
Fax: 45-43-96-8596

### Japan

3M Health Care Ltd.  
Tel: 81-3-3709-8289  
Fax: 81-3-3709-8754



**3M Medical Specialties**  
3M Center, Building 275-5W-05  
St. Paul, MN 55144-1000 USA  
Tel.: 800 228-3957

ISO 9001  
ISO 13485  
EN 46001  
CERTIFIED



FM 14552