Technical Information Sheet
Product Number 9960
3M™ Anti-Fog Hydrophilic Film
Effective Date: March 2013
Supersedes all previous information sheets

Product Description:
3M™ #9960 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:

Film	6.8 ± 0.25 mils (0.17 ± 0.01 mm) Transparent Polyester with 3M Proprietary Hydrophilic Treatment, both sides

Product Properties[1]:

Fogging Properties	None at 90°C (195°F)
Light Transmission	90.2% at 700 nm; 83.0% at 400 nm (typical)
Break Strength	Minimum - 166.0 lb/in (75.3 Kg/25 mm) (738 N/25 mm) - MD Minimum - 164.0 lb/in (74.4 Kg/25 mm) (730 N/25 mm) - CD
Break Elongation, %	Minimum - 70% - Machine Direction; 47% - Cross Direction
Heat Shrinkage	Maximum - 1.3% - MD & CD [150°C for 15 minutes]

[1] Most 3M test methods are available upon request.

Roll Description:

Roll Length	Maximum 1600 yd (1463 m) ± 2%
Roll Width	Minimum 2 in (51 mm); Maximum 49.0 in (125 cm) ± 1/8 in (3.2 mm)
Splices per Roll	Maximum 1 per every 500 yd (457 m); up to 4 per 1600 yd (1463 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 3in. (76 mm) or 6in. (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 fourteen months from date stamped on shipping container when stored at a temperature 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.

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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** 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.

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