



Medical Materials & Technologies

3M™ Anti-Fog Hydrophilic Films 9960FS

Product Description:

3M™ Microfluidic Face Shield Film 9960FS, consists of a clear polyester film coated on two sides with a 3M hydrophilic anti-fogging technology. The treatment is the same on both sides of the film. The product is designed for use in health care medical devices such as face shields.

Features and Benefits:

- Hydrophilic
- Anti-fogging
- Transparent

9960FS is currently available in two thicknesses: 6.8 mil and 14 mil thicknesses

Composition



6.8 ± 0.25 mils (0.17 ± 0.01 mm)
14 ± 0.50 mils (0.36 ± 0.01 mm)

Product Properties:	6.8 mil Thickness	14 mil Thickness
Wet Index * (typical)	40	40
Haze (typical)	0.3 %	0.8 %
Light Transmission (typical)	85 % at 400 nm 92 % at 700 nm	82 % at 400 nm 91 % at 700 nm
Break Strength (Tensile) (typical)	MD: 163 lb/in (74 kg/25.4 mm) CD: 254 lb/in (115 kg/25.4 mm)	MD: 350 lb/in (159 kg/25.4 mm) CD: 365 lb/in (166 kg/25.4 mm)
Break Elongation (typical)	MD: 143 % CD: 85 %	MD: 144 % CD: 124 %

* Wet index property is a measure of hydrophilicity and is indicative of the films anti-fog property. Product as supplied in original packaging will maintain hydrophilic properties for a period of 20 months from date of manufacture when stored at room temperature 68-77 °F (20-25 °C).

Roll Description:	6.8 mil Thickness	14 mil Thickness
Roll Length (nominal)	1800 yard (1646 meter)	993 yard (907 meter)
Roll Width (nominal)	50.75 in (128.9 cm) with 49 in (124.5 cm) usable	50 inch (127 cm) entire width usable
Fiber Core	6 in (15.2 cm) diameter fiber core	10 in (25.4 cm) diameter fiber core

Recommended Storage:

Product as supplied in original packaging will maintain wet index property for a period of 18 months from date of manufacture when stored at room temperature 68-77 °F (20-25 °C). Properties other than wet index have not been tested for shelf life and 3M makes no claims regarding the stability.

Recommended Handling:

When not in use, keep product wrapped in moisture impervious barrier to avoid excessive humidity. Cleaning and disinfectant solutions may reduce anti-fogging properties and are not recommended.

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.

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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 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 for your region's contact information.

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



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3M Center, Building 275-5W-05
St. Paul, MN 55144-1000 USA

Phone 1-800-228-3957
Web 3M.com/MedTech

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Effective April 2020