

Medical Materials & Technologies

3M™ 9901P Single Coated Hydrophilic Fluid Transport Film

Release version. 2022 Feb.

Product Description:

3M™ 9901P Hydrophilic Fluid Transport Film consists of a transparent polyester film with one side hydrophilic treatment and covered by polyethylene protective film.

Feature and Benefits:

- Hydrophilic
- Transparent
- Non-hemolytic
- Printable
- Transparent mask film protect
- Dimensionally stable
- Anti-fogging properties
- Low auto-fluorescence

Composition¹:

Tape Layer	Description	Caliper
Film	Transparent Polyester with one side 3M Hydrophilic Treatment.	4.0 mils (100 microns)
Protective Film.	Polyethylene Protective Film	2.0 mils (50 microns)

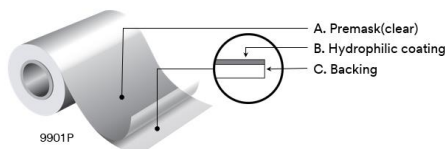
¹Typical values

Product Properties²:

Haze	Maximum 4.0%
Light Transmission	85~92%
Tensile Strength	Minimum – $\geq 15 \text{ kg/mm}^2$ – MD ; Minimum – $\geq 15 \text{ kg/mm}^2$ - CD
Break Elongation, %	Minimum – 80% - Machine Direction ; 80% - Cross Direction
Heat Shrinkage	Maximum – 2.0% - MD & 0.5% - CD [150°C for 30 minutes]
Wet Index Value	Minimum – 36

²Most 3M test methods available upon request

Product Roll Dimensions:

Roll Length	Maximum 330 m $\pm$ 2%
Roll Width	Maximum 1080 mm $\pm$ 3mm
Splices per Roll	Maximum 2 per every 360 yd (330 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.
Rewinding direction & dimension	 The diagram shows a roll of film being unwound. A cross-section of the film is shown with three layers labeled: A. Premask (clear), B. Hydrophilic coating, and C. Backing. The roll is labeled 9901P.

Note: Supplied on 3-in (76 mm) for slit roll

Biocompatibility Testing:

Product 9901P has been subjected to the following safety evaluations.

Study Type	Test Method	Standard	GLP	Results
In vitro cytotoxicity	Cell lysis & cytotoxicity	ISO 10993-5: ≤ 2	Yes	Reactivity grade: 0
MEM elution	Cell lysis & cytotoxicity	ISO 10993-5: ≤ 2	Yes	Reactivity grade: 0
Hemolytic Index	Interaction with blood	ISO 10993-4: $< 2\%$	Yes	Non-Hemolytic (index: 0.0%)
	Test article extract	ISO 10993-4: $< 2\%$	Yes	Non-Hemolytic (index: 0.0%)

Spectroscopy

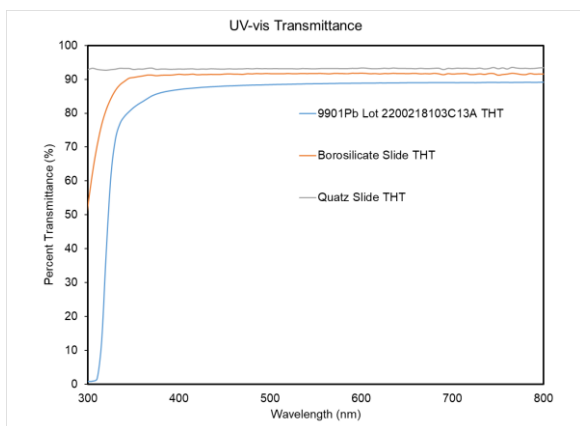
Integrated Emission Intensity

Samples were compared to known reference materials, quartz slide, borosilicate slide and quinine sulfate was chosen due to its high purity and stability as a fluorescence standard reference material.

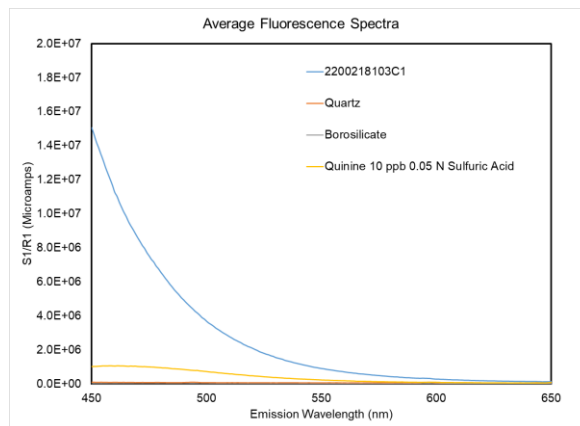
Sample	Integrated Emission Intensity/ 10^6 *
Quartz Slide	14.6
Borosilicate Cover Slide	6.1
3M 9938	548.1
10 ppb quinine in 0.5 N sulfuric acid	82.0

Represents typical value * ($\lambda_{Ex} = 365 \text{ nm}$, $\lambda_{Em} = 450\text{-}650 \text{ nm}$)

UV Vis Transmittance Spectra



Average Fluorescence Spectra



Recommended Storage Conditions & Shelf Life:

Product as supplied in original packaging will maintain stated test properties for 24 months from date stamped on shipping container when stored at temperatures of 50-80°F (10-27°C) and a relative humidity of 40-60 percent. Keep product in original packaging until use.

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 biocompatibility 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.

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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.

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