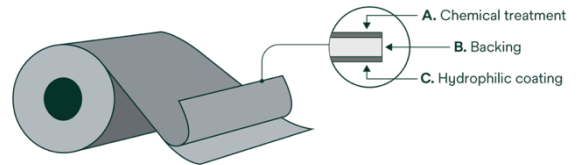


Technical information sheet

Solventum™ Microfluidic Diagnostic Hydrophilic Film 9938



Product description

Microfluidic Diagnostic Hydrophilic Film 9938 film consists of a transparent polyester film with one side Solventum hydrophilic treatment and backside treatment designed to stabilize hydrophilic coating when coiled. The product is designed for use in health care medical devices such as test strip and lab-on-chip applications.

Features and benefits

- Hydrophilic
- Transparent
- Non-hemolytic
- Printable
- Non-toxic to mammalian cells
- Dimensionally stable
- Anti-fogging properties

Composition

| |
|---|
| A. Chemical treatment designed to protect and stabilize hydrophilic coating |
| B. 100 ± 5µm [3.9 ± 0.2 mil] Transparent polyester film |
| C. Solventum Hydrophilic treatment |

Roll description

| | |
|------------------|--|
| Roll length | Maximum 800M (875 yd) ± 2% |
| Roll width | Minimum 170 ± 3 mm (6.69 ± 0.12 in); Maximum effective (usable) 1040 ± 3 mm (40.94 ± 0.12 in) |
| Splices per roll | Maximum 1 per every 400M (437 yd); up to 2 per 800M (875 yd) |

Note: Supplied on 3-in (76 mm) core for slit roll / 6-in (152 mm) core for 1040mm width log-roll.

Product properties

| | |
|---------------------|--|
| Haze | Maximum 4.0% |
| Light transmission | 85~95% |
| Tensile strength | Minimum – 15 kg/mm ² (2.13 x 10 ⁴ lb/in ²) - machine direction Minimum – 15 kg/mm ² (2.13 x 10 ⁴ lb/in ²) - cross direction |
| Break elongation, % | Minimum – 80% - machine direction; 80% - cross direction |
| Heat shrinkage | Maximum – 2.0% - machine direction; 0.5% - cross direction [150°C for 30 minutes] |
| Wet index value | Minimum – 36 |

Biocompatibility testing

Product 9938 has been subjected to the following safety evaluations.

| Study type | Test method | Standard | GLP | Result |
|-----------------------|---------------------------|-----------------------|-----|-----------------------------|
| 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

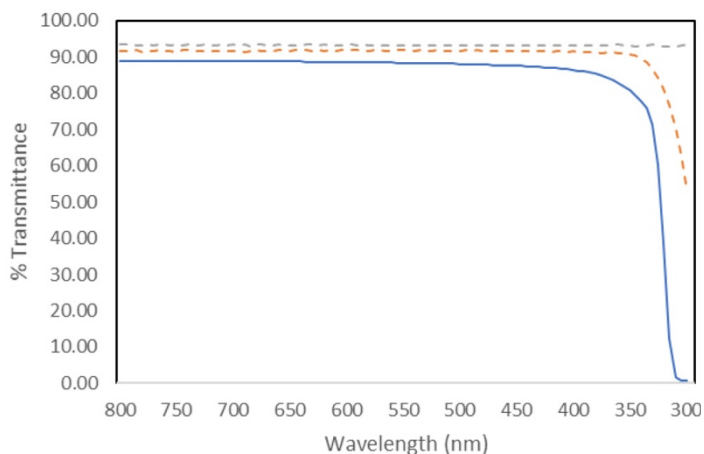
Integrated emission intensity:

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 |
| Solventum 9938 | 503.9 |
| 10 ppb quinine in 0.5 N sulfuric acid | 82.0 |

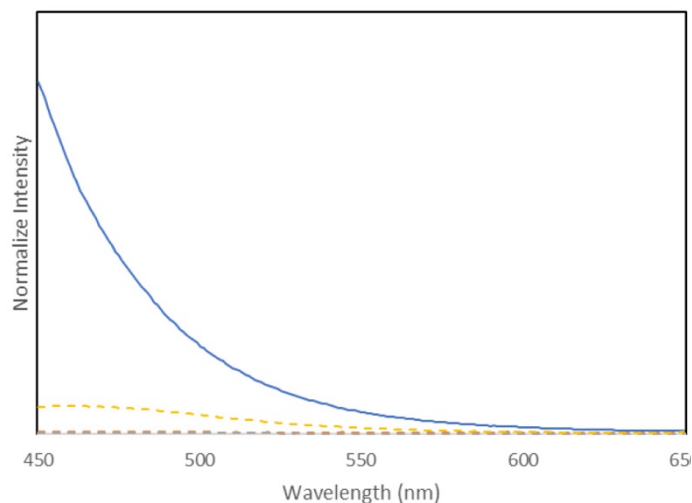
Represents typical value * ($\lambda_{Ex} = 365 \text{ nm}$, $\lambda_{Em} = 450-650 \text{ nm}$)

UV Vis transmittance spectra



— 9938 Lot 1200831302C12A THT
 - - - Borosilicate Slide THT
 - - - Quartz Slide THT

Average fluorescence spectra



— 9938 - - - Quartz - - - Borosilicate - - - Quinine 10 ppb

Recommended storage conditions & shelf life

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

Product and safety information: User is solely responsible for determining the suitability of Solventum samples and products for the intended use including any necessary safety or toxicity assessment. Solventum 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 Solventum Helpline 800-742-1994 (U.S.) or for international inquiries, please contact your local country representative.



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