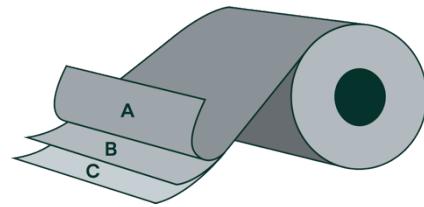


Technical information sheet

Solventum™ Microfluidic Diagnostic Tape 9969

Effective: June 2020

Supersedes all previous information sheets



Product description

Microfluidic Diagnostic Tape 9969, consists of a clear pressure sensitive transfer adhesive. The adhesive is supplied between two clear, silicone coated polyester release liners. The product is designed for use in diagnostic medical devices such as test strips and lab-on-a-chip.

Features and benefits

- Designed for high through put converting
- Adheres to a wide variety of substrates
- Transparent
- Low autofluorescence
- Non-hemolytic
- Non-toxic to mammalian cells
- Low extractables
- Designed for cleaner die cutting

Composition

A – Release liner	2 mil (0.05 mm) Silicone coated polyester release liner
B – Adhesive	1 mil (0.025 mm) Acylate adhesive
C – Release liner	2 mil (0.05 mm) Silicone coated polyester release liner

Please note — The following technical information should be considered representative or typical only and should not be used for specification purposes.

Adhesion & liner release: Represents typical value

Adhesion to steel, 180° peel*	29.3 oz/in (8.2 N/25.4 mm)
Adhesion to polyester, 180° peel*	38.4 oz/in (10.7 N/25.4 mm)
Adhesion to polycarbonate, 180° peel*	38.5 oz/in (10.7 N/25.4 mm)
Adhesion to acrylic, 180° peel*	35.3 oz/in (9.8 N/25.4 mm)
Adhesion to polypropylene, 180° peel*	7.7 oz/in (2.1 N/25.4 mm)
Liner release moderate side, 180° peel*	16.9 gm/in (0.17 N/25.4 mm)
Liner release easy side, 180° peel*	4.2 gm/in (0.04 N/25.4 mm)

*Adhesion tested after 5-minute dwell time.

Roll description

Length, maximum	1640 yd (1500 m) ± 2%
Width, maximum	48 in (122 cm) ± 0.06 in (1.52 mm)
Splices per roll	Maximum 3 per 500 yd (457 m)
	Maximum 5 per 1000 yd (914 m)
	Maximum 7 per 1500 yd (1372 m)

Note: Core material and diameter must be specified in special instructions of order set. Default: 3 in (76 mm) fiber core. Material options: fiber or plastic. Diameter options: 3 in (76 mm) or 6 in (152 mm).

Biocompatibility testing

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%)

Optical properties & spectroscopy: Represents typical value based on ASTM: D1003

Transmission: 88.6%	Haze: 11.4%	Clarity: 84.9%
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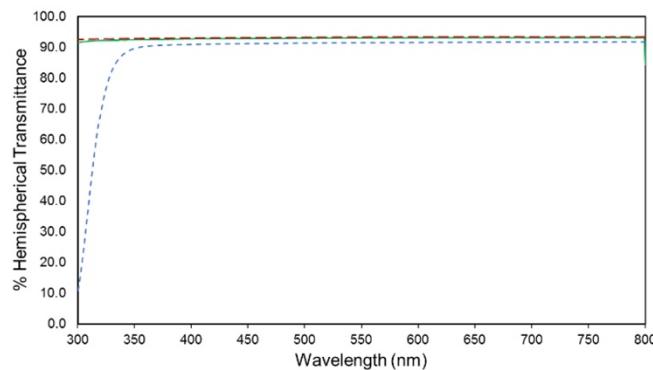
Spectroscopy

Integrated emission intensity: Samples were compared to known reference materials, quartz slide, borosilicate slide and 10 ppb quinine. Quinine sulfate was chosen due to its high purity and stability as a fluorescence standard reference material.

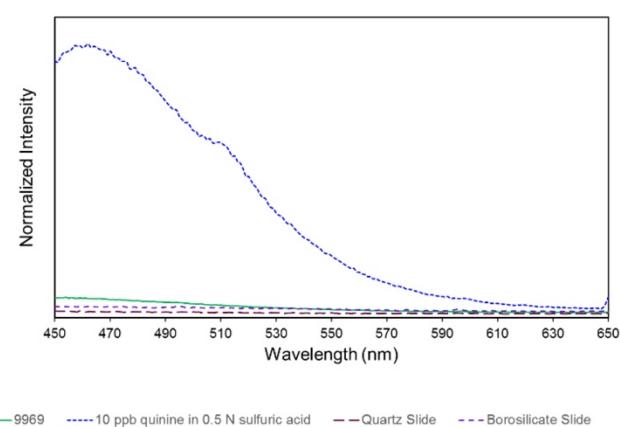
Sample	Integrated emission intensity/10 ⁶
Quartz slide	2.9
Borosilicate cover slide	5.7
3M 9969	6.6
10 ppb quinine in 0.5 N sulfuric acid	69.3

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

UV Vis Transmittance Spectra



Average Fluorescence Spectra



Recommended storage & preliminary rollstock shelf life

Product as supplied by Solvuentum in original packaging will maintain certified properties for a period of two (2) years from date of manufacture when stored at room temperature 68-77 °F (20-25 °C).

Please see reverse side for important product, safety and warranty information.

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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Call us at Customer Service to place an order: 800-742-1994 (U.S.).

Visit our website: go.Solventum.com/MedTechOEM 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 Solventum Helpline 800-742-1994 (U.S.) or for international inquiries, please contact your local country representative.



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