3M Science. Applied to Life.™

Medical Materials & Technologies

3M™ Microfluidic Diagnostic Tape 9795T Thick Single-Sided Clear Delayed Tack Adhesive Tape



Product Description:

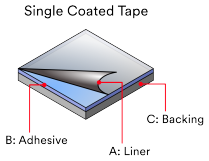
3M™ Microfluidic Diagnostic Tape 9795T, consists of a clear polyester film coated on one side with a pressure sensitive, delayed tack, silicone adhesive. The tape is supplied on a white fluorosilicone coated polyester release liner. The product is designed for use in diagnostic medical devices such as test strip, lab-on-a-chip and PCR applications.

Features and Benefits:

- Delayed tack adhesive
- Adheres to a wide variety of substrates
- Transparent
- Low autofluorescence
- Designed for PCR use conditions
- Thick backing reduces deformation
- Non-hemolytic
- Low extractables
- Non-toxic to mammalian cells

Composition:





A: Release Liner	2 mil (51 um) White fluorosilicone coated polyester release liner
B: Adhesive	2 mil (51 um) Silicone adhesive
C: Backing	6.9 mil (175 um) Polyester film

Roll Description:

Roll Length	Maximum 550 yd (503 m) ± 2%
Roll Width	Maximum 48 in (122 cm) ± 0.06 in (1.52 mm)
Splices per Roll	Maximum 1 per 100 yd (91 m), 3 per 200 yd (183 m), 5 per 400 yd (366 m), 7 per 550 yd (503 m)

Note: Rolls delivered on 6 inch (152 mm) plastic core; restrictions apply for some width and length combinations

Adhesion & Liner Release:

Adhesion to steel, 180° Peel*	35 oz/in (3.8 N/cm) [min] 98 oz/in (10.7 N/cm) [typical]
Adhesion to glass, 180° Peel*	35 oz/in (3.8 N/cm) [min] 97 oz/in (10.6 N/cm) [typical]
Adhesion to polyester, 180° Peel*	35 oz/in (3.8 N/cm) [min] 98 oz/in (10.7 N/cm) [typical]
Liner Release, 180° Peel	20 gm/in (77 mN/cm) [max]

*Adhesion tested after 5-minute dwell time. Adhesion and release values are dependent on test method conditions; values obtained under different test conditions may vary from those listed above.

Biocompatibility Testing:

Product 9795R has been subjected to the following safety evaluations. Product 9795T uses the same adhesive and results are presented as representative of the product.

Study Type	Test Method	Standard	GLP	Results
In vitro cytotoxcity	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:

Transmission: 89.5% [min]	Haze: 15.0% [max]

Value based on ASTM: D1003.

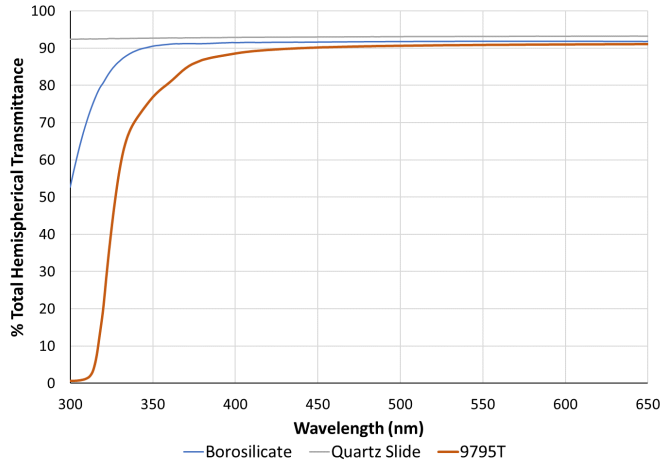
Integrated Emission Intensity

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. Values based on internal testing report (ref GID 282616)

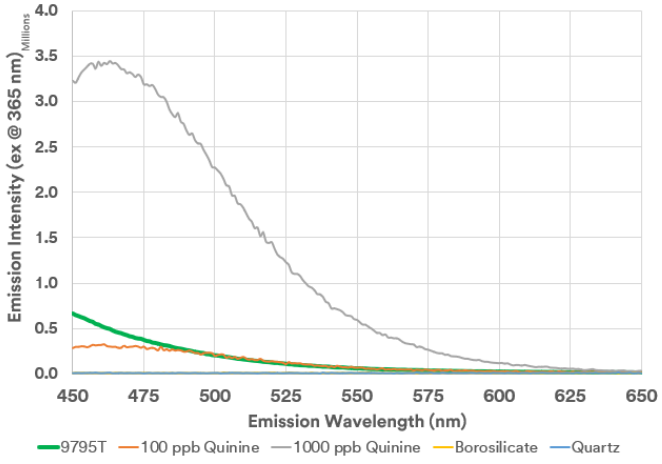
Sample	Integrated Emission Intensity x 10^{6*}
Quartz Slide	2.7
Borosilicate Cover Slide	2.8
3M 9795T	30.1
100 ppb quinine in 0.5 N sulfuric acid	23.3
1000 ppb quinine in 0.5 N sulfuric acid	237.4

*Sum of emission intensities over the range (λEX = 365 nm, λEM = 450-650 nm)

Average Corrected Total Hemispherical Transmittance



Fluorescence Spectra



Recommended Storage Conditions & Shelf Life:

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

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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