

# 3M

## Polyester Tape

### 8421·8422

Technical Data

February 2017

Product Description	3M™ Polyester Tapes 8421 and 8422 are for the photographic industry for splicing most film for processing through the developing chemicals.			
Product Construction	Backing	Adhesive	Color	Standard Roll Length
	Polyester	Rubber	3M tape 8421 – Creamy white 3M tape 8422 – Black	72 yds. (65.8 m)
Typical Physical Properties	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.			
				ASTM Test Method
	3M Tape 8421			
	Adhesion to Steel:	42 oz./in. width (46 N/100 mm)		D-3330
	Tensile Strength:	38 lbs./in. width (665 N/100 mm)		D-3759
	Elongation at Break:	125%		D-3759
	Backing Thickness:	1.3 mils (0.03 mm)		D-3652
	Total Thickness:	2.4 mils (0.06 mm)		D-3652
	Temperature Use Range:	-60F (-50C) to 300°F (149°C)		
	3M Tape 8422			
	Adhesion to Steel:	50 oz./in. width (55 N/100 mm)		D-3330
	Tensile Strength:	43 lbs./in. width (753 N/100 mm)		D-3759
	Elongation at Break:	140%		D-3759
	Backing Thickness:	1.4 mils (0.04 mm)		D-3652
	Total Thickness:	2.5 mils (0.06 mm)		D-3652
	Temperature Use Range:	-60F (-50C) to 300°F (149°C)		
Features	<ul style="list-style-type: none"> <li>• Frequently used in chemical baths at 150°F (66°C).</li> <li>• Excellent solvent and chemical resistance, especially those found in photographic processes.</li> <li>• Aggressive rubber adhesive grabs quickly and adheres well to a variety of films.</li> <li>• Hot caustics will weaken backing after prolonged immersion.</li> <li>• 3M tape 8422 black tape is opaque to light and can work in systems having automatic sensors.</li> <li>• 3M tape 8421 white backing is used to easily identify splices.</li> </ul>			

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## 8421 • 8422

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- Application Ideas
- Pre-splicing of most photographic film for processing (thorough testing and evaluation is suggested due to varying processing baths).
  - General wide web splicing, including butt splicing and core starting.
  - Sealing, color-coding, protecting and edging where a higher tack rubber adhesive is needed.
  - Defect marking.

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Storage Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.

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Shelf Life To obtain best performance, use this product within 18 months from date of manufacture.

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ISO 9001

This Industrial Adhesives and Tapes Division product was manufactured under a quality system registered to ISO 9001 standards.



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