



# Repulpable Splittable Flying Splice System

## 9994

Technical Data

October, 2006

### Product Description

3M™ Repulpable Splittable Flying Splice System 9994 is a repulpable double coated tape laminate with a low release split liner.

### Product Construction

Backing	Adhesive	Liner	Color	Available Roll Sizes Roll Length
Repulpable paper	Repulpable adhesive	Easy-release coated repulpable paper	Splicing side - blue Tabbing side - clear	50mm x 55m (2" x 60 yds.) 60 mm x 55m (2 <sup>3</sup> / <sub>8</sub> " x 60 yds.) 75mm x 55m (3" x 60 yds.)

### 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.**

Repulpability:	Completely*
Bond Strength:	Excellent affinity to Cellulose Fibers
Tape Thickness:	5.0 mils (0.11 mm) without liner
Liner Thickness:	3.1 mils (0.08 mm)
Post-Split Splicing Tape Thickness:	2.5 mils (0.06 mm)
Post-Split Tabbing Tape Thickness:	2.2 mils (0.05 mm)
Temperature Use Range:	Up to 300°F (150°C)**

\*Repulpability judged according to TAPPI UM-213, Procedure A. It is important to follow the weight and quantity measurements for the fiber, splicing tape and water. Non-representative results can occur if test guidelines are not followed.

\*\*As tested in laboratory, however, heat resistance may depend on machine and web tenions, nature of paper surface, application pressure, etc.

### Features

- Optimal application temperature range is: 70° to 100°F (21° to 38°C).
- Sealed plastic bags assure product stability for consistent performance.
- Water solubility and alkali dispersability are excellent and eliminate danger of contaminating the paper mill broke with non-repulpable materials.
- For optimum results, firm even rub down pressure must be applied to the tape area to create the best possible adhesion between the tape and paper surface.
- No need for complex patterns and multiple tapes.
- Saves money by having a more consistent and efficient splice.
- Improved splicing ergonomics compared to multi-point patterns.
- Quick and easy application in four simple steps.
- Resistance to premature delamination during spin-up.
- High bond area to paper surface.
- Enables a smooth splice transition.

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### Features (continued)

- Reliable splicing operation.
- No loose fibers.
- Reduce likelihood of interruptions of subsequent processing operations.
- Coatable and printable.
- Allows for wide range of paper processing through supercalendering operations.
- One tape to meet all your splicing needs.
- High initial adhesion on different paper surfaces.
- Quick and easy splices.

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### Application Ideas

- Flying splice tape for most printing grades of paper.
- High temperature temporary splicing at papermill supercalenders.
- May not be suitable for high speed (> 150 fpm) flying splices.
- May not be suitable for papers of 80 lbs./3000 sq. ft. ream (100 gsm).

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### Storage

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original packaging.

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### Shelf Life

To obtain best performance, use this product within 12 months from date of manufacture.

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### Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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ISO 9001:2000

**3M**

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.

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