



# Splittable Flying Splice System

## R9990

Technical Data

November, 2006

### Product Description

3M™ Splittable Flying Splice System R9990 is a double coated tape laminate with a low release split liner and a metalized layer for auto sensing and splice detection applications.

### Product Construction

| Backing         | Adhesive           | Liner                               | Color  | Available Roll Sizes<br>Roll Length* |
|-----------------|--------------------|-------------------------------------|--|--------------------------------------|
| Metalized paper | Repulable adhesive | Easy-release coated repulable paper | Splicing side - blue<br>Tabbing side - clear | 37.5mm x 55m (1½" x 60 yds.)         |

\*Also available in 100m lengths.

### 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.**

|                                     |  |
|-------------------------------------|--|
| Bond Strength:                      | Excellent affinity to Cellulose Fibers |
| Tape Thickness:                     | 5.5 mils (0.14 mm) without liner       |
| Liner Thickness:                    | 3.1 mils (0.08 mm)                     |
| Post-Split Splicing Tape Thickness: | 3.1 mils (0.08 mm)                     |
| Post-Split Tabbing Tape Thickness:  | 2.2 mils (0.05 mm)                     |
| Temperature Use Range:              | Up to 300°F (150°C)*                   |

\*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.
- 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.
- Can save money by having a more consistent and efficient splice.
- 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 and no need to angle splice.
- Reliable splicing operation.
- No loose fibers.
- Reduce likelihood of interruptions of subsequent processing operations.
- Coatable and printable.

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## Features *(continued)*

- Allows for wide range of papers and film web processing 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 wide range of grades of papers and converted webs.

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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**

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



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Printed in U.S.A.

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