

# 3M Scotch™ "Silver Splice" Splittable Flying Splice Tape with Built-in Sensor- Repulpable 9990N for Newsprint

## Preliminary Product Data Sheet

Feb. 2010  
Supersedes: All

**Product Description** A double coated, splittable tape construction designed for straight line flying splices, furnished with 2 repulpable acrylic adhesives and an easy release paper liner (also repulpable), with liner score for easy manual application and a built-in sensor layer (eliminating need for the traditional Aluminum sensor label on the splice pattern).

**Key Features** The built-in Aluminum sensor within tape construction eliminates the need for the traditional reflective label needed for splice detection. The very soft splicing side adhesive is designed for good "instant grab" on uncoated newsprint.

### Physical Properties

<b>Adhesive Type Splicing side</b>	Clear Repulpable on Aluminium laminate	
<b>Adhesive Type reel side</b>	Clear Repulpable	
<b>Tape Color</b>	Silver (splicing side) White (tabbing side)	
<b>Carrier</b>	White splittable non-siliconised tissue/aluminiumfoil laminate	
<b>Thickness (ASTM D-3652)</b> Tape Liner Total	Before splitting 0.135 mm 0.060 mm 0,195 mm	After splitting Splice side 0.080 mm Reel side 0,055 mm
<b>Splittable Layer</b>	cleavable layer, recessed 2 mm in from leading tape edge	
<b>Release Liner</b>	Silicone coated semi-bleached Kraft paper	
<b>Available roll widths</b>	37,5 mm, 50 mm	
<b>Available roll lengths</b>	33 m	

**Physical Properties**

Not for specification purposes

Not for specification purposes.  
**Needs thorough testing-**  
performance dependent on web tensions, nature of paper surface, application pressure, etc. which are outside 3M control.

<b>Repulpability *</b>	Adhesive and Liner Completely *	
<b>Bonding Strength</b>	Excellent affinity to Cellulose Fibres	
<b>Paper weight / speed**</b>	Lower Paper Wt Test Limits 37,5 mm: 40 g, 600 m/min  50 mm: 40 g, 590 m/min	Upper Paper Wt Test Limits 37,5 mm: 60 g, 530 m/min  50 mm: 60 g, 530 m/min

**Applications**

Designed for: Flying splice of paper webs in the printing industry in cold set processes where no heat is used during the printing process

Flying splice of paper webs in newsprint.

**\*Repulpability**

Repulpability is tested according to TAPPI UM 213, Procedure A. It is important to follow the weight and quantity measurement for fibre, splicing tape and water. Non-representative results can occur if test guidelines are not followed. The adhesives, carrier and liner are repulpable according to this test method, however, the presence of the aluminium sensor in the construction renders the tape non-repulpable according to TAPPI UM 213, Procedure A.

**\*\* Paper weight / Speed**

Lower and upper limits of paper weight and press speed represent the limits of successful testing of this and other related constructions carried out during field trials on core and belt driven presses or on other appropriate paper manufacturing equipment. The paper weight and splicing speed limits given do not imply that this product will not perform well on papers outside these limits. They are only an indication that testing has not been completed outside these limits. We recommend consultation with 3M technical service for processes involving paper weights and splicing speeds outside the above-mentioned limits. Please note that thorough testing is necessary to ensure suitability of this product to the user's individual splicing conditions and requirements.

**Storage**

3M Scotch™ Silver Splice Splittable Flying Splice Tape with Built-in Sensor Repulpable 9990N for Newsprint should be stored in the original carton at 21°C (70°F) & 50 % Relative Humidity .....or refrigerated in the original carton for maximum shelf life. If the product is refrigerated, it should be allowed to warm to a temperature of at least 21°C before using. It is recommended that the protective liner be removed just prior to splicing, rather than leaving paper rolls with prepared splice patterns in storage without the protective liner.

**Shelf Life**

3M Scotch™ Silver Splice Splittable Flying Splice Tape with Built-in Sensor Repulpable 9990N for Newsprint has a shelf life of e.g. 12 months from date of manufacture by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity.

**Precautionary Information**

Refer to product label and Material Safety Data Sheet for health and safety information before using the product.

For information please contact your local 3M Office.

[www.3M.com](http://www.3M.com)

**For Additional Information**

To request additional product information or to arrange for sales assistance, please call your local sales representative.

Address correspondence to: 3M

---

**Important Notice**

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 or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law.

---

**Note**

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

---

3M is a trademark of 3M Company.

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

**Industrial Adhesives&Tapes Division**

© 3M United Kingdom PLC 200

**3M United Kingdom PLC**

3M UK Center  
Cain Road  
Bracknell, Berkshire  
RG12 8HT

**Customer Service :**

Tel 0870 60 800 50  
Fax 0870 60 700 99  
E-mail  
tapes&adhesives.uk@mmm.com

**3M Ireland**

3M House, Adelphi Centre,  
Upper Georges Street,  
Dun Laoghaire, Co. Dublin,  
Ireland

**Customer Service :**

Tel (01) 280 3555  
Fax (01) 280 3509