



Scotch™ "Silver Splice" Splittable Flying Splice Tape with Built-in Sensor-Repulpable R9990

Preliminary Product Data Sheet

February 2010
Supersedes: NEW

Product Description

A double coated, splittable tape construction designed for straight line flying splices, furnished with repulpable acrylic adhesives on both sides 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 Aluminium sensor label on the splice pattern).

Key Features

The built-in Aluminium sensor within tape construction eliminates the need for the traditional reflective label needed for splice detection. The repulpable adhesives are designed for good shear for both cold set newsprint, and heat set commercial printing processes.

Physical Properties

Adhesive Type Splicing side	Clear Repulpable on Aluminium laminate	
Adhesive Type reel side	Clear Repulpable	
Tape Color	Silver (splicing side) White (tabbing side)	
Carrier	White splittable non-siliconised tissue/aluminiumfoil laminate	
Thickness (ASTM D-3652) 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
Splittable Layer	cleavable layer, recessed 2 mm in from leading tape edge	
Release Liner	Silicon coated semi-bleached Kraft paper	

Performance Characteristics

Repulpability *	Adhesive and Liner Completely *	
Bonding Strength	Excellent affinity to Cellulose Fibres	
Paper weight / speed**	Lower Paper Wt Test Limits 37,5 mm: 45 g, 510 m/min 50 mm: 45 g, 700 m/min	Upper Paper Wt Test Limits 37,5 mm: 52 g, 400 m/min 50 mm: 72 g, 384 m/min

Applications

Designed for: Flying splice of paper webs in the printing industry

Flying splice of paper webs in newsprint, offset litho, gravure and flexographic printing processes

*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 splicing 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 press 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 R9990 should be stored in the original carton at 21°C (70°F) & 50 % Relative Humidityor 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 R9990 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

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.

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 the 3M Company.

3M Afrique Francophone

Société à responsabilité limitée Au capital de 19.756.400 Dirhams Siège Social: ZF Ksar Almajaz Bureau 6 Plateforme Lot n°2 Immeuble 4 zénith Tanger R.C : 74327, I.F. : 18745050

3M Gulf Limited

Ein El Mreisseh Saint Charles City Center, 4th Floor P.O.Box: 11-5025 Riad el Solh Beirut 1107 2180 Lebanon

3M Minnesota Mining and Manufacturing Nigeria Limited
No 2 Sheraton Opebi Link Road Ikeja Lagos Nigeria

3M Arabia, LLC

Building 24-25 3M Saudi Arabia Zone C, Business Gate Airport Road Riyadh Saudi Arabia

3M Gulf (Representation Office)

Suhaim Bin Hamad St. Al Mana Towers Tower B, 2nd Floor, Office No.4 Doha Qatar P.O.Box 14684

3M Pakistan

Islamic Chamber of Commerce Building ST-2/A, Block 9, KDA Scheme 5, Clifton, Karachi Pakistan

3M Egypt

Finance Center, New Cairo Plot 140, Banking Sector 5th settlement Cairo Egypt

3M Kenya Ltd

Victoria Towers, 3rd Floor Kilimanjaro Av, Upperhill Kenya

3M South Africa and Sub-Saharan Africa

146A Kelvin Drive Woodmead Sandton South Africa

3M Gulf Limited

Dubai Internet City Building No. 11, 3rd Floor U.A.E

3M Maroc

Société à responsabilité limitée Au capital de 18.000.000 de Dirhams Siège Social: 33, lot la colline II Sidi Maarouf - Casablanca R.C:78517, I.F.: 1084514 Morocco