



Repulpable Splicing System

9990N

Technical Data

April, 2013

Product Description

3M™ Repulpable Splicing System 9990N is a double coated, splittable tape construction designed for straight line flying splices, featuring an acrylic adhesives and an easy release paper liner, with liner scored for easy manual application and a built-in sensor layer.

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.

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.

Adhesive Type Splicing side	Blue Acrylic on Aluminum laminate	
Adhesive Type Reel side	Clear Acrylic	
Tape Color	Blue (splicing side) White (tabbing side)	
Carrier	White splittable non-siliconized tissue / aluminum foil laminate	
Thickness (ASTM D-3652)	Before splitting	After splitting
	Tape: 5.5 mils (0.14 mm) Liner: 2.2 mils (0.05 mm) Total: 7.7 mils (0.20 mm)	Splice side 3.3 mils (0.08 mm) Reel side 2.2 mils (0.05 mm)
Splittable Layer	Splittable layer, recessed 2 mm in from leading tape edge	
Release Liner	Silicone coated semi-bleached Kraft paper	

Repulpability

Repulpability is tested according to TAPPI UM 213, Procedure A. The adhesives, carrier and liner are repulpable according to this test method; however, the presence of the aluminum sensor in the construction renders the tape non-repulpable according to TAPPI UM 213, Procedure A. The aluminum sensor strip may be separated out during the cleaning process.

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Performance Characteristics

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Bonding Strength	Excellent affinity to Cellulose Fibers	
Paper weight / Speed**	Lower Paper Wt Test Limits	Upper Paper Wt Test Limit
1.5 inch (37.5 mm) tape	27.5 lb (45g) 1670 ft/min (510 m/min)	32 lb (52g) 1310 ft/min (400 m/min)
2.0 inch (50 mm) tape	27.5 lb (45g) 2300 ft/min (700 m/min)	44 lb (72g) 1260 ft/min (384 m/min)

**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 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.

Applications

Flying splice of paper webs in newsprint.

Storage

3M™ Repulpable Splicing System 9990N should be stored in the original carton at 70°F (21°C) and 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 70°F (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™ Repulpable Splicing System 9990N has a shelf life of 12 months from date of manufacture by 3M when stored in the original carton at 70°F (21°C) and 50% relative humidity.

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Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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ISO 9001

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



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