



# Double Coated Splicing Tapes

## 9737 • 9737R • 9738 • 9738R

Technical Data

March, 2008

### Product Description

3M™ Splicing Tapes 9737 and 9737R are high tack, double coated acrylic pressure sensitive adhesives with a polyester carrier.

3M™ Splicing Tapes 9738 and 9738R are similar products, but produced with a non-woven tissue carrier. These products offer good temperature resistance and adhere well to kraft and coated papers. These high performance splicing tapes are appropriate for use on paper, plastics and other continuous web processes. Especially appropriate in the manufacture of corrugated paper.

### Construction

| Product        | 3M™ Splicing Tape 9737           | 3M™ Splicing Tape 9737R          | 3M™ Splicing Tape 9738           | 3M™ Splicing Tape 9738R          |
|----------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Carrier:       | Polyester                        | Polyester                        | Non-woven Tissue                 | Non-woven Tissue                 |
| Release Liner: | 55# Densified Kraft Paper, White | 55# Densified Kraft Paper, White | 55# Densified Kraft Paper, White | 55# Densified Kraft Paper, White |
| Thickness:     |                                  |                                  |                                  |                                  |
| Tape           | 3.5 mils (88.9 μ)                | 3.5 mils (88.9 μ)                | 4.3 mils (109.2 μ)               | 4.3 mils (109.2 μ)               |
| Carrier        | 0.5 mils (12.7 μ)                | 0.5 mils (12.7 μ)                | 1.3 mils (33.0 μ)                | 1.3 mils (33.0 μ)                |
| Liner          | 3.2 mils (81.3 μ)                | 3.2 mils (81.3 μ)                | 3.2 mils (81.3 μ)                | 3.2 mils (81.3 μ)                |
| Tape Color:    | Clear                            | Red                              | Clear                            | Red                              |

### 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.

| Product                                     | 3M Splicing Tape 9737     | 3M Splicing Tape 9737R    | 3M Splicing Tape 9738     | 3M Splicing Tape 9738R    |
|---|---------------------------|---------------------------|---------------------------|---------------------------|
| Adhesion to Steel: (Initial @ RT)           | 60 oz./in. (16.7 N/25 mm) | 50 oz./in. (14.2 N/25 mm) | 60 oz./in. (16.7 N/25 mm) | 50 oz./in. (14.2 N/25 mm) |
| Shear Strength: (1" x 1", 1000g at RT)      | > 500 hours               | > 500 hours               | > 500 hours               | > 500 hours               |
| Relative High Temperature Operating Ranges: |                           |                           |                           |                           |
| Short Term (minutes, hours)                 | 300°F (149°C)             | 300°F (149°C)             | 300°F (149°C)             | 300°F (149°C)             |
| Long Term (days, weeks)                     | 260°F (127°C)             | 260°F (127°C)             | 260°F (127°C)             | 260°F (127°C)             |
| Minimum Continuous Temperature:             | -10°F (-23°C)             | -10°F (-23°C)             | -10°F (-23°C)             | -10°F (-23°C)             |

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**Application Techniques** Bond strength is dependent upon the amount of adhesive-to-surface contact. Firm application pressure helps ensure better adhesive contact and improve bond strength.

To obtain optimum adhesion, the bonding surfaces must be clean, dry, and uniform. Some typical surface cleaning solvents are isopropyl alcohol or heptane.\*

Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

**\*Note:** When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.

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- Features & Benefits**
- Versatile splicing tape product meets a wide variety of application requirements.
  - Excellent peel, tack and shear.
  - Adheres well to Kraft and coated papers.
  - Moisture resistant.
  - Good temperature resistance.
  - Excellent performance at high and low temperatures.

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**Application Equipment** For additional dispenser information, contact your local 3M sales representative, or the toll free 3M sales assistance number at 1-800-362-3550.

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**Available Sizes** Please contact your 3M sales representative or contact 3M customer service at 1-800-362-3550 for details on available sizes.

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**Storage** Store in original cartons at 70°F (21°C) and 50% relative humidity.

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**Shelf Life** If stored under proper conditions, product retains its performance and properties for one year from date of manufacture.

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## Certification/ Recognition

**MSDS:** 3M has not prepared MSDS's for these products which are not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, these products should not present a health and safety hazard. However, use or processing of these products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards.

**TSCA:** These product are not defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

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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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## Warranty and Limited Remedy

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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.



### Industrial Adhesives and Tapes Division

3M Center, Building 21-1W-10, 900 Bush Avenue  
St. Paul, MN 55144-1000  
800-362-3550 • 877-369-2923 (fax)  
www.3M.com/industrial



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