

# Technical data sheet



Product: 311+

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

Article group: EINSEITIG

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## 3M™ SCOTCH® BOX SEALING TAPE

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## Technical Data Sheet

3M™ Scotch® Box Sealing Tape 311+



[Product Details](#)

### **Product Description**

Scotch® Box Sealing Tape 311+ is an industrial packaging tape for box sealing, splicing, recoupage and other demanding packaging applications on light to medium weight boxes. The product offers excellent performance over broad temperature ranges

### **Product Features**

- Adheres instantly to a variety of surfaces
- Edge tear and split resistance
- Adheres well to recycled corrugate
- Complies with the environmental considerations of ASTM D 1974
- Conformable backing.
- Good aging in sunlight or fluorescent lighting.
- Long life in use.

### **Technical Information Note**

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

### **Typical Physical Properties**

| Attribute Name       | Test Method | Value                                 |
|----------------------|-------------|---------------------------------------|
| Color                |             | Clear and Tan                         |
| Adhesive Type        |             | Pressure sensitive acrylic            |
| Backing              |             | Biaxially oriented polypropylene film |
| Backing Thickness    | ASTM D3652  | 0.028 mm (1.1 mil)                    |
| Total Tape Thickness | ASTM D3652  | 0.052 mm (2.05 mil)                   |

### **Typical Performance Characteristics**

| Attribute Name      | Test Method | Dwell Time | Temperature   | Test Condition    | Substrate       | Value                                  |
|---------------------|-------------|------------|---------------|-------------------|-----------------|----------------------------------------|
| 180° Peel Adhesion  | ASTM D3330  | 72 h       | 23 °C (73 °F) |                   | Stainless Steel | 41.6 N/100mm (38.0 oz/in) <sup>1</sup> |
| Elongation at Break | ASTM D3759  |            |               |                   |                 | 125 %                                  |
| Tensile Strength    | ASTM D3759  |            |               | Machine Direction |                 | 438 N/100mm (25 lb/in)                 |
| Tensile Strength    | ASTM D3759  |            |               | Cross Direction   |                 | 701 N/100mm (40 lb/in)                 |

<sup>1</sup> 304 mm/min (12 in/min)

## **Handling/Application Information**

### **Application Techniques**

An extensive line of application equipment including hand held manual dispensers and semi-automatic and fully automatic equipment is available. Scotch® Box Sealing Tape 311+ has been applied to fiberboard boxes with good results at freezer and refrigeration temperatures of 20°F to 50°F (-6.6°C to 10°C). Once applied, Scotch® Tape 311+ performs well on fiberboard boxes subjected to temperatures below 32°F (0°C).

### **Storage and Shelf Life**

Store under normal conditions of 4° to 27°C (40° to 80°F) and 40 to 50% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 18 months from date of manufacture.

### **Available Sizes**

| Attribute Name       | Value                                 |
|----------------------|---------------------------------------|
| Core Size (ID)       | 76.2 mm (3 in)                        |
| Standard Roll Length | 100, 914, 1500 m (109, 1000, 1641 yd) |
| Standard Width       | 48, 72 mm (1.9, 2.8 in)               |

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### **ISO Statement**

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