

# Scotch® Box Sealing Tape 311



## Technical Data

July, 2009

**Product Description** Scotch® Box Sealing Tape 311 is a general purpose box sealing tape designed specifically for utility type applications on light to medium weight boxes. The product offers good performance over broad temperature ranges; specifically in colder and damper applications; and adheres to recycled fiberboard.

Construction	Backing	Adhesive	Colors
	Biaxially oriented polypropylene film	Pressure sensitive acrylic. Requires no moisture, heat or solvent for activation.	Clear and tan

**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.**

		ASTM Test Method
Adhesion to Steel:	22 oz./in. width (24 N/100 mm width)	D-3330
Tensile Strength:		
Machine Direction:	25 lbs./in. width (438 N/100 mm width)	D-3759
Cross Direction:	40 lbs./in. width (700 N/100 mm width)	D-3759
Elongation at Break:	125%	D-3759
Thickness - Backing:	1.1 mil (0.028 mm) nominal	D-3652
Total:	2.05 mil (0.052 mm) nominal	D-3652

- Features**
- Adheres instantly to a variety of surfaces.
  - Conformable backing.
  - Edge tear and split resistant.
  - Good aging in sunlight or fluorescent lighting.
  - Reliable closures.
  - Long life in use.
  - FDA approved for indirect food contact.

**Available Sizes**

Standard Widths:	48 mm
Core Size (ID):	3 in.
Lengths:	50 m, 100 m, 914 m, 1500 m

# Scotch® Box Sealing Tape

311

---

**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 refrigeration temperatures of 32°F to 50°F (0°C to 10°C). Once applied, Scotch® Tape 311 performs well on fiberboard boxes subjected to temperatures below 32°F (0°C).

---

**Storage Conditions** Store in a clean, dry place. Temperature of 40-80°F (4-26°C) and 40 to 50% relative humidity are recommended.

---

**Shelf Life** To obtain best performance, use this product within 18 months from date of manufacture.

---

**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.

---

**Product Use** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

---

**Warranty, Limited Remedy, and Disclaimer** Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

---

**Limitation of Liability** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

**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 225-3S-06  
St. Paul, MN 55144-1000  
800-362-3550 • 877-369-2923 (Fax)  
www.3M.com/industrial



Recycled Paper  
40% pre-consumer  
10% post-consumer

Scotch is a registered trademark of 3M.  
Printed in U.S.A.  
©3M 2009 70-0710-0296-1 (7/09)