# **3M**

# **Aluminum Foil Tape**

# 431 • 439 Linered Version

Product Description	A 2 mil nominal dead soft aluminum foil with transparent acrylic adhesive for marpermanent sealing, holding, splicing or masking applications requiring the protect offered by a foil backing. (439 tape is linered version)			
Typical Physical Properties and Performance Characteristics			431 tape	439 tape
	Backing:		Aluminum foil	Aluminum foil
	Adhesive:		Acrylic	Acrylic
	Color:		Shiny silver	Shiny silver
	Standard Roll Length:		60 yds. (55 m)	60 yds. (55 m)
	Liner:		None	Tan kraft paper with silicone release
	Adhesion to Steel:	431 439	41 oz./in. width (45 N/100 mm) 41 oz./in. width (45 N/100 mm)	ASTM Test Me
			4 1 02./III. WIGHT (43 IN/100 ITIIII)	
	Tensile Strength at Break:	431 439	19 lbs./in. width (338 N/100 mm 18 lbs./in. width (315 N/100 mm	
	Tensile Strength at Break: Elongation at Break:	431	19 lbs./in. width (338 N/100 mm	
	· ·	431 439 431	19 lbs./in. width (338 N/100 mm 18 lbs./in. width (315 N/100 mm 5%	)
	Elongation at Break:	431 439 431 439 431	19 lbs./in. width (338 N/100 mm 18 lbs./in. width (315 N/100 mm 5% 3% 1.9 mils (.047 mm)	D-3759
	Elongation at Break:  Backing Thickness:	431 439 431 439 431 439 431	19 lbs./in. width (338 N/100 mm 18 lbs./in. width (315 N/100 mm 5% 3% 1.9 mils (.047 mm) 1.9 mils (.047 mm) 3.1 mils (.078 mm)	D-3759 D-3652
	Elongation at Break:  Backing Thickness:  Total Tape Thickness:	431 439 431 439 431 439 431 439	19 lbs./in. width (338 N/100 mm 18 lbs./in. width (315 N/100 mm 5% 3% 1.9 mils (.047 mm) 1.9 mils (.047 mm) 3.1 mils (.078 mm) 3.1 mils (.078 mm)	D-3759 D-3652 D-3652

• Foil backing provides an excellent reflective surface for both heat and light.

• Low moisture vapor transmission rate offers excellent sealing and patching

• Good aging performance both indoors and outdoors.

performance.

### **Aluminum Foil Tape**

#### 431 • 439 Linered Version

## General Information (continued)

- Best results attained when applied to clean dry surfaces above 32°F (0°C).
- Store in a clean, dry place at 60-80°F (15-27°C) and 40-50% relative humidity no longer than 24 months from date of manufacture.

#### **Application Ideas**

- Seal and patch tears in truck trailers, as well as other outdoor equipment.
- Reflect heat away from sensitive areas.
- Thermal heat conduction.
- General purpose holding, patching, sealing applications indoors or out.
- Splicing of thin gauge foils.
- Good maskant in electroplating of aluminum because it will not contaminate the bath.
- Decorative.

Features	Advantages	Benefits
Aluminum foil backing	• Protection	<ul> <li>Helps protect parts from water, dust or chemical damage</li> </ul>
	Heat reflective	• Helps protect parts from heat
	• Flame resistant	• Will not support combustion
Acrylic adhesive	Long aging	Helps reduce replacement need

### For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-227-5085. Address correspondence to: 3M Industrial Tape and Specialties Division, 3M Center, Building 220-8E-04, St. Paul, MN 55144-1000. Our fax number is 612-733-9175. In Canada, phone: 1-519-451-2500. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-0400.

#### **Important Notice**

3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M ITSD product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M ITSD product. Given the variety of factors that can affect the use and performance of a 3M ITSD product some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M ITSD product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

### Limitation of Remedies and Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.

ISO 9002

**3M** 

This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



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