

Excellent Integrated System Limited

Stocking Distributor

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<u>3M</u> <u>431-1</u>

For any questions, you can email us directly: sales@integrated-circuit.com



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Aluminum Foil Tape

431 • 439L (Linered)

Technical Data

Product Description

3MTM Aluminum Foil Tape 431 and 439L is a 2-mil nominal dead soft aluminum foil with transparent acrylic adhesive for many permanent sealing, holding, splicing or masking applications requiring the protection offered by a foil backing.

IMPORTANT: 3MTM Aluminum Foil Tape 431 and 439L are not intended for medical usage. Neither 3M nor the Food and Drug Administration have evaluated or reviewed this tape for medical application. User assumes all risk and liability whatsover in connection with usage of product in a medical application.

Product Construction

Backing	Adhesive	Color	Liner (3M tape 439L)	Standard Roll Length
Aluminum foil	Acrylic	Shiny silver	Tan kraft paper with silicone release	60 yds. (55 m)

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.

	AS	TM Test Method	
	41 oz./in. width (45 N/100 mm)	D-3330	
: 3M tape 431 3M tape 439L	19 lbs./in. width (338 N/100 mm) 18 lbs./in. width (315 N/100 mm)	D-3759 D-3759	
3M tape 431 3M tape 439L	5% 3%	D-3759	
	1.9 mils (0.05 mm)	D-3652	
	3.1 mils (0.08 mm)	D-3652	
3M tape 439L	5.6 mils (0.14 mm)	D-3652	
	$0.1 \text{ gms H}_2\text{O}/100 \text{ sq. in.}/24 \text{ hrs.}$ (1.55 g/m²/24 hrs.)	D-3833	
	-65° to 300°F (-54° to 149°C)		
	0.0096 lbs./yd./in. width (.0049 kg/m/24 mm)		
	3M tape 439L 3M tape 431 3M tape 439L	41 oz./in. width (45 N/100 mm) 13 M tape 431 3M tape 439L 3M tape 431 3M tape 431 3M tape 439L 3% 1.9 mils (0.05 mm) 3.1 mils (0.08 mm) 3M tape 439L 5.6 mils (0.14 mm) 0.1 gms H ₂ O/100 sq. in./24 hrs. (1.55 g/m²/24 hrs.) -65° to 300°F (-54° to 149°C)	

Features

- Flame resistant. Meets U.L. 723, Class "L" low flammability rating (File R 7311).
- Meets requirements of F.A.R. 25.853(a).
- Foil backing provides an excellent reflective surface for both heat and light.
- Good aging performance both indoors and outdoors.
- Low moisture vapor transmission rate offers excellent sealing and patching performance.
- Best results attained when applied to clean dry surface above 32°F (0°C).

Distributor of 3M: Excellent Integrated System Limited

Datasheet of 431-1 - TAPE ALUMINUM FOIL 1" X 60YD

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3M[™] Aluminum Foil Tape

431 • 439L (Linered)

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.

Storage

Store under normal conditions of 60° to 80° F (16° to 27° C) and 40 to 60% R.H. in the original carton.

Shelf Life

To obtain best performance, use this product within 24 months from date of manufacture.

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.

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 Business 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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