



Lead Foil Tape

420 (Linered) • 421

Product Data Sheet

September 2022

Product Description 3M™ Lead Foil Tape 420 and 421 are backed with a rubber adhesive, offering excellent conformability in a variety of application conditions, indoors and out.

Product Construction	Backing	Adhesive	Color	Liner (3M tape 420)	Standard Roll Length
	Lead foil	Rubber (green)	Dark silver	Clear, easy-release film	36 yds. (33 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.

ASTM Test Method

3M tape 420

Adhesion to Steel:	45 oz./in. width (49 N/100 mm)	D-3330
Tensile Strength:	20 lbs./in. width (350 N/100 mm)	D-3759
Elongation at Break:	12%	D-3759
Backing Thickness:	4.7 mils (0.12 mm)	D-3652
Tape Thickness:	6.8 mils (0.17 mm)	D-3652
Liner Thickness:	3.5 mils (0.09 mm)	D-3652
Temperature Use Range:	-60° to 225°F (-54° to 106°C)	
Water Vapor Transmission Rate:	0.1g H ₂ O/100 sq. in./24 hrs. (1.55 g/m ² 24 h)	D-3833
Weight:	0.075 lbs./yd./in. width (0.0375 kg/m/24mm)	

3M tape 421

Adhesion to Steel:	31 oz./in. width (34 N/100 mm)	D-3330
Tensile Strength:	15 lbs./in. width (263 N/100 mm)	D-3759
Elongation at Break:	14%	D-3759
Backing Thickness:	4.0 mils (0.10 mm)	D-3652
Tape Thickness:	6.3 mils (0.16 mm)	D-3652
Temperature Use Range:	-60° to 225°F (-54° to 106°C)	
Water Vapor Transmission Rate:	0.1g H ₂ O/100 sq. in./24 hrs. (1.55 g/m ² 24 h)	D-3833
Weight:	0.06 lbs./yd./in. width (0.034 kg/m/24mm)	

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Features

- Very good conformability.
 - Good thermal properties and will perform over a wide variety of temperature conditions (-60° to 225°F or -54° to 106°C). It has been used at higher temperatures for shorter duration.
 - 3M™ Lead Foil Tape 420 can be certified to Fed. Spec. H-T-29A.
 - Electrically and thermally conductive.
 - Can be die-cut into specific shapes.
 - This material when disposed of separately is classified as RCRA hazardous waste. Please consult applicable Federal, State and local regulations for proper disposal.
 - Elevated lead levels in water may result from long term submersion of this product.
 - Best results are obtained when applied to a clean dry surface above 32°F (0°C). Also, by “feathering” the edges – rubbing the tape down with a smooth-edged plastic piece (or similar object) – the tape can be made to better conform to the substrate. This is especially important if the tape is to be used as a “thief” in electroplating where the edges must fully contact the metal base.
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Application Ideas

- Electroplating
 - Radiation barrier
 - Moisture barrier
 - Chemical milling
 - X-ray plate masking
 - Maskant during paint stripping
 - Add weight (balance) to equipment parts (golf clubs, tennis rackets, etc.)
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Disposal and Safety Considerations

- Wear protective gloves and/or wash hands after working with tape.
 - Lead will slowly leach into water when submerged. Leaching will accelerate as acidity increases.
 - This material when disposed of separately is classified as RCRA hazardous waste. Please consult applicable Federal, State and local regulations for proper disposal.
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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 18 months from date of manufacture.

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Product Use

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ISO 9001: 2000

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