3M Lead Foil Tape 420 (Linered) • 421

Technical Data M						
Product Description	3M TM Lead Foil Tape 420 and 421 are backed with a rubber adhesive, offering excellent conformability in a variety of application conditions, indoors and out.					
Typical Physical Properties	Backing Adhesive		Color	Liner Standard Roll Lengtl		
	Lead foil Rubber (green		n) Dark silve	r Clear, easy-release film (3M tape 420)	36 yds. (33 m)	
	or	typical only and	d should not l 3M tape 420		ASTM Test Method	
	Adhesion to Steel:		3M tape 420 3M tape 421		oz./in. width (49 N/100 mm) D-3330 oz./in. width (34 N/100 mm)	
	Tensile Strength:		3M tape 420 3M tape 421	20 lbs./in. width (350 N/100 mm) D-3759 15 lbs./in. width (263 N/100 mm) D-3759		
	Elongation at Break:		3M tape 420 3M tape 421	12% D-3759		
	Backing Thickness:		3M tape 420 3M tape 421	4.7 mils (0.12 mm) D-3652 4.0 mils (0.10 mm)		
	Tape Thickness:		3M tape 420 3M tape 421	5.8 mils (0.17 mm) D-3652 5.3 mils (0.16 mm)		
	Liner Thickness:		3M tape 420	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/m²/24 hrs.)	s. D-3833	
	•		3M tape 420 3M tape 421		vd./in. width (0.0375 kg/m/24 mm) 1./in. width (0.034 kg/m/24 mm)	

3M[™] Lead Foil Tape

420 (Linered) • 421

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.
- 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.

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.)

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.

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.

3M[™] Lead Foil Tape

420 (Linered) • 421

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.

Warranty, Limited Remedy, and Disclaimer

Many factors beyond 3M's control and uniquely with user's knowledge and control can affect the use and performance of a 3M product in a particular application. 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. 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.

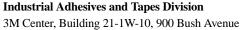
Limitation of Liability

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.





St. Paul, MN 55144-1000 800-362-3550 • 877-369-2923 (fax) www.3M.com/industrial

