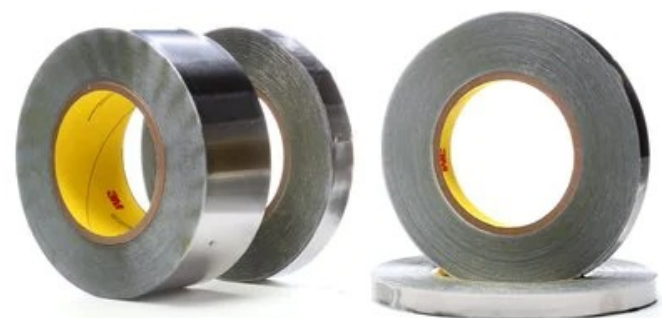


3M™ Lead Foil Tape 420 (Linered)

Last Revision Date: May, 2022



Product Description

3M™ Lead Foil Tape 420 is backed with a rubber adhesive, offering excellent conformability in a variety of application conditions.


Product 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.

Technical Information Note




The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Typical Physical Properties

Property	Values	Additional Information
Backing	Lead Foil	
Adhesive Type	Rubber (green)	
Liner	White, easy-release film	
Liner Thickness	0.09 mm	
Color	Dark Silver	
Backing Thickness (mm)	0.13 mm	View 
Test Method: ASTM D3652		

Total Tape Thickness (mil)	7.6 mil	View 
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.19 mm	View 
Test Method: ASTM D3652		
Backing Thickness	5 mil	View 
Test Method: ASTM D3652		
Liner Thickness	3.7 mil	
Approximate Weight	35.2 g/m/24 mm	
Approximate Weight	0.075 lb/yd/in	
Water Vapor Transmission	1.55 g/m ² /24 hr	View 
Test Method: ASTM D3833		
Water Vapor Transmission	0.1 g/100 in ² /24 hr	View 
Test Method: ASTM D3833		

Typical Performance Characteristics

Property	Values	Additional Information
Tensile Strength	35 N/cm	View 
Test Method: ASTM D3759		
180° Peel Adhesion	4.9 N/cm	View 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	45 oz/in	View 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
Tensile Strength (lb/in)	20 lb/in	

View 

Test Method: ASTM D3759

Elongation at Break (%)

12 %

View 

Test Method: ASTM D3759

Long Term Temperature Resistance

107 °C

Minimum Long Term Temperature Resistance

-51 °C

Long Term Temperature Resistance

225 °F

Minimum Long Term Temperature Resistance

-60 °F

Available Sizes

Property	Values	Additional Information
Standard Roll Length	33 m	
Standard Roll Length	36 yd	

Disposal and Safety Considerations

- Wear protective gloves when handling the tape as transfer of lead to the hands is possible. To ensure removal of any lead residue after use, wash hands with a soap specifically formulated to remove lead from the surface of the skin. This will minimize additional transfer of lead to other surfaces.
- 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 and Shelf Life

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

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

Bottom Matter

3M

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Handling/Application Information

Application Examples

- Electroplating
- Radiation barrier
- Moisture barrier
- Chemical milling
- X-ray plate masking

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40067913/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=420 Lined

Family Group

Link Tags:

- [420 \(Lined\)](#)

Products	Backing	Adhesive Type	Liner	Liner Thickness	Color	Backing Thickness (mm)	Total Tape Thickness (mm)	Tensile Strength	Long Term Temperature Resistance	Minimum Long Term Temperature Resistance
420 (Lined)	Lead Foil	Rubber (green)	White, easy-release film	0.09 mm	Dark Silver	0.13 mm	0.19 mm	35 N/cm	225 °F	-51 °C

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

Information

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