3M Lead Foil Tape 420 (Linered) • 421

Technical Data					May, 2008	
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 Standard Roll Lengt		
	Lead foil	Rubber (gree	n) Dark silve	r Clear, easy-release film (3M tape 420)	36 yds. (33 m)	
Typical Physical Properties	Adhesion to Steel:		3M tape 420 3M tape 421	45 oz./in. width (49 N/100 31 oz./in. width (34 N/100	mm) D-3330	
	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					
	Tensile St	rength :	3M tape 421 3M tape 420	31 oz./in. width (34 N/100) 20 lbs./in. width (350 N/100		
	Florestion	at Brooks	3M tape 421	15 lbs./in. width (263 N/100		
	Elongation at Break:		3M tape 420 3M tape 421	12% 14%	D-3759	
	Backing T	hickness:	3M tape 420 3M tape 421	4.7 mils (0.12 mm) 4.0 mils (0.10 mm)	D-3652	
	Tape Thic	kness:	3M tape 420 3M tape 421	6.8 mils (0.17 mm) 6.3 mils (0.16 mm)	D-3652	
	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	
	Weight:		3M tape 420 3M tape 421		s./yd./in. width (0.0375 kg/m/24 mm) /yd./in. width (0.034 kg/m/24 mm)	

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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. 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 • X-ray plate masking
								Radiation barrier Maskant during paint stripping
 Moisture barrier Chemical milling 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.							

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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.			
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	This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.			



Industrial Adhesives and Tapes Division

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