



# Paint Masking Tape

## 231

FOD# 1573  
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### Technical Data

January 1, 1999

*Supersedes September 1, 1998*

**Product Description** A premium high performance paper masking tape designed to perform well in most industrial painting situations, including the use of bake cycles.

**Product Construction** Backing: A smooth crepe paper treated with a heat and solvent resistant saturant.  
Adhesive: A rubber adhesive designed to meet the requirements of industrial paint masking.  
Color: Tan  
Standard Roll Length: 60 yds. (54.8m)

**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.

		<b>ASTM TEST METHOD</b>
Adhesion to Steel:	36 oz./in. width (39 N/100mm)	D-3330
Tensile Strength:	26 lbs./in. width (455 N/100mm)	D-3759
Elongation at Break:	10%	D-3759
Tape Thickness:	6.1 mils (0.15mm)	D-3652
Temperature Use Range:	Up to 250°F (121°C) for 1 hour	

- General Information**
1. This smooth masking tape embodies all the features that are desirable of a paint masking tape. Its thinness is particularly beneficial in reducing paint edge build-up.
  2. This tape has excellent conformability and easy tear.
  3. Tape 231 can be used at bake temperatures up to 250°F (121°C) for one hour and removes without adhesive transfer.
  4. Special backsize treatment provides excellent paint flake resistance.
  5. The unique balance of adhesive and backing provides a high degree of resistance to tearing or slivering on removal.
  6. Tape 231 should not be subjected to outdoor exposure or prolonged periods of sunlight. Tape may become very difficult to remove.
  7. Tape 231 can be qualified to meet Military Specification MIL-T-21595D, Amendment 2, Type I, Federal Specification PPP-T-42C, Type I, (CID-A-A-883B).
  8. Tape 231 is manufactured in an ISO 9002 registered plant to meet worldwide quality standards.

**Shelf Life**

To obtain best performance, use this product within one year from date of manufacture and store under normal conditions of 70°F (21°C) and 50% R.H. in the original carton.

**Application Ideas**

This superior masking tape is designed specifically for the professional painter. Tape 231 is conformable, hugs curves and contours, goes on quickly and easily, sticks at a touch and stays put; every feature is perfectly balanced to give outstanding masking results. This product is well suited for paint masking on automobiles, aircraft, trucks and boats.

**Features**

<u>FEATURES</u>	<u>ADVANTAGES</u>	<u>BENEFITS</u>	
Rubber adhesive	Instant adhesion	Sticks easily/allows fast application	
	Good holding power	Resists lifting or curling/ helps reduce rework	
	Superior adhesive transfer resistance	Clean removal/helps reduce labor	
	Controlled crepe paper backing	Smoothness	Excellent surface contact/ very secure holding
		Thinness	Sharp paint line/quality paint job
		Dead stretch	Minimal recovery/reduces rework
Backing saturant	Conformability	Easy handling/reduces time involved	
	Solvent and moisture resistance	Reduces bleed-through/ helps reduce rework	
	Easy tear	Easy to handle/helps reduce waste	
	Sliver resistance	One piece removal/helps reduce labor	
Special backsize treatment	Controlled unwind	Easy to use/helps reduce waste	
	Paint flaking resistance	Reduces rework/results in quality paint job	

**Technical Information and Data**

The technical information and data, recommendations, and other statements provided are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed.

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**Product Use**

Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which 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.

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**Warranty and Limited Remedy**

The 3M product will be free from defects in material and manufacture for a period of one (1) year from the date of manufacture. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. If the 3M product is defective within the warranty period stated above, your exclusive remedy and 3M's sole obligation shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product.

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**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 contract, warranty, negligence, or strict liability.



This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



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