



Technical Data Sheet

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3M[™] High Performance Masking Tape 231/231A



Product Details

Product Description

3M[™] High Performance Masking Tape 231/231A is a premium high performance crepe paper masking tape designed to perform well in most industrial painting situations, including the use of bake cycles. This smooth to the touch masking tape, embodies all the features that are desirable of a paint masking tape and designed specifically for the professional painter. 231A designation was added 12/04 for the Aerospace market.

Product Features

- Can be qualified for ASTM D-6123 (replaces obsolete PPP-T-42C, Type I, (CID-A-A-883B).
 Rubber adhesive with instant adhesion that sticks easily and allows fast application.
- Good holding power that resists lifting or curling that helps reduce rework.
- Superior adhesive transfer resistance with clean removal that helps reduce rework.
 Smooth mini-crepe backing results in excellent surface contact with very secure holding.
- Excellent conformability and easy handling that reduces time involved in application.
- The backing is solvent and moisture resistant that helps reduce bleed-through minimizing rework.
- The backing has excellent dead stretch for minimal recovery that reduces rework.

• Easy to tear backing aids in handling, yet strong enough to resist slivering giving one piece removal to help reduce labor.

- Special backsize treatment gives a balanced unwind that helps reduce waste.
- Paint flake resistance that reduces rework due to contamination, results in a quality paint job.
- Designed for indoor use only as it should not be subjected to outdoor exposure for prolonged periods of sunlight as the tape may become very difficult to remove. Best results are obtained if applied and removed within 24 hours.

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

Attribute Name	Test Method	Value
Color		Tan
Adhesive Type		Rubber
Backing		Smooth mini-crepe paper, treated with
		a heat resistant saturant.
Total Tape Thickness	ASTM D3652	0.19 mm (7.6 mil)

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C (72 °F)	4.1 N/cm (38 oz/in) ¹
Elongation at Break	ASTM D3759		10 %
Tensile Strength	ASTM D3759		49 N/cm (28 lb/in)
Short Term Temperature			Removes cleanly after 30
Resistance			minutes up to 149 °C
			(Removes cleanly after 30
			minutes up to 300 °F) 2

¹ 12 in/min (300 mm/min)

² Short Term (minutes, hour)

Handling/Application Information

Application Examples

3MTM High Performance Masking Tape 231/231A is well suited for painting on automobiles, aircraft, trucks, boats and painting of fabricated parts.

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 18 months from date of manufacture.

Available Sizes

Attribute Name	Value
Standard Roll Length	55 m (60 yd)

Information

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ISO Statement

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