



Fine Line Tape

218

FOD# 1453
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Technical Data

June 1, 1999

Supersedes September 1, 1998

Product Description A high-performance film backed tape with low profile and high adhesion to achieve excellent paint lines and for other masking and holding applications.

Product Construction Backing: Polypropylene plastic film
Adhesive: A rubber adhesive with an ideal balance of properties for masking use
Color: Green, matte finish
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.

		ASTM TEST METHOD
Adhesion to Steel:	39 oz./in. width (43 N/100mm)	D-3330
Tensile Strength:	13 lbs./in. width (228 N/100mm)	D-3759
Elongation at Break:	490%	D-3759
Tape Thickness:	4.8 mils (0.12mm)	D-3652
Temperature Use Range:	Up to 250°F (121°C)	

- General Information**
1. Tape 218 will give an excellent color line separation due to its thinness.
 2. The specially processed film backing stretches easily for smooth curves, yet can be easily torn by hand with a quick tearing action.
 3. The specially processed Tape 218 film backing will allow taping over fresh paint jobs sooner than paper tapes with less chance of imprint damage.
 4. Tape 218 has excellent moisture and solvent resistance.
 5. Tape 218 is not considered a high temperature tape but could be used on bake cycles up to 250°F (121°C) for up to 30 minutes.
 6. Tape 218 should not be subjected to outdoor exposure or prolonged periods of sunlight. Tape may become very difficult to remove.
 7. Tape 218 can be qualified to meet Military Specification MIL-T-21595D Amendment 2 Type III.
 8. Tape 218 is manufactured in an ISO 9002 registered plant to meet ISO 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	Fine Line paint masking	Can sealing
	Circuit board conformal coat masking	Solvent resistant masking
	Electroplating stop off masking, non-critical	Silk screen masking
	Circuit board splash mask protection	Lettering
	Moisture resistant masking	Labeling (surface writable)

Features	<u>FEATURES</u>	<u>ADVANTAGES</u>	<u>BENEFITS</u>
	Film backing	Conformability	Virtually no recovery and lift on curves/helps reduce rework
		Smoothness	Minimizes chance of imprint damage/fewer rejects
		Thinness	Minimum paint edge build-up/helps improve paint job
		Solvent and moisture resistance	Helps prevent bleed-through/helps reduce rework
		Easy hand tear	Easy handling/helps labor savings
	Matte finish backing	Good paint anchorage	Resists flaking and paint runs/helps reduce rework
	Balanced rubber adhesive	Instant adhesion	Adheres easily/helps reduce labor
		Good holding power	Resists lifting or curling/helps reduce rework
		Adhesive transfer resistance	Clean removal/helps reduce labor
	Special backsize	Controlled unwind	Easy to use/helps minimize waste

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.

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.

**Warranty and
Limited Remedy**

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



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