



High-temperature Masking Tape

214

1451
page 1 of 3

Technical Data

September 1, 1998

Supersedes April 1, 1995

Product Description A high-temperature paper masking tape good for one hour at 350°F (177°C) on most surfaces. The adhesive of Tape 214 is sulfur-free which makes it one of the few tapes that can be used on copper, silver and other precious metals.

Product Construction Backing: A smooth crepe paper treated with a high heat and stain resistant saturant. Adhesive: A firm rubber adhesive designed to give outstanding holding power for a high heat resistant tape.
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.

		<u>ASTM TEST METHOD</u>
Adhesion to Steel:	27 oz./in. width (29 N/100mm)	D-3330
Tensile Strength:	24 lbs./in. width (420 N/100mm)	D-3759
Elongation at Break:	10%	D-3759
Tape Thickness:	6.7 mils (0.17mm)	D-3652
Temperature Use Range:	Up to 350°F (177°C)	

General Information

1. The formulation of Tape 214 is sulfur-free which makes it one of the few tapes that can be used on copper and silver plated surfaces. It has excellent stain resistance.
2. The adhesive on Tape 214 is very firm and allows it to be used on most treated metals.
3. Tape 214 complements Tape 213 in high temperature masking tape usage and should be evaluated at the same time.

**General Information
(cont.)**

1. Tape 214 will generally withstand bake cycles of up to 350°F (177°C) for one hour – even on treated metals. Performance is governed by total time, temperature, surface tape is applied to, and any other coatings and conditions.
2. Tape 214 should not be subjected to outdoor exposure or prolonged periods of sunlight exposure. Tape may become very difficult to remove.
3. Tape 214 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

Tape 214 can be used in a wide variety of high heat, treated metal, and stain resistant applications. It is generally considered only when one of these factors is a problem.

Features

<u>FEATURES</u>	<u>ADVANTAGES</u>	<u>BENEFITS</u>
Highly cured adhesive	Good high temperature holding	Helps reduce rework
	Adhesive transfer resistance	Clean removal/helps reduce clean up
Controlled crepe paper backing	Sliver resistance	One piece removal/helps reduce labor
	Conformability	Easy handling/helps reduce time involved
	Easy tear	Hand tearable/helps reduce waste
	Solvent and moisture resistance	Resists bleed-through/helps reduce rework
Special backsize treatment	Controlled unwind	Easy to use/helps reduce waste
	Paint flaking resistance	Helps reduce rework/gives quality paint job

Technical Data

All physical properties, statements, and recommendations are either based on tests we believe to be reliable or our experience, but they are not guaranteed. 3M recommends each user determine the suitability of the masking paper, film or tape for the intended use.

Important Notice

3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M ITSD 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 ITSD product. Given the variety of factors that can affect the use and performance of a 3M ITSD product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M ITSD product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Limitation of Remedies and Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for any loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.

**Industrial Tape and Specialties Division**

3M Center, Building 220-7W-03
St. Paul, MN 55144-1000
USA
1 800.722.5463
651.733.9017 FAX
1 800.223.7427 Fax On Demand
<http://www.3M.com>

3M Canada Inc.

PO Box 5757
London, Ontario
Canada N6A 4T1
519.451.2500
519.452.6262 FAX

3M Europe

Hermeslaan 7
B – 1831 Diegem
Belgium
32 (0)2 722.45.50
32 (0)2 722.45.18 FAX

3M do Brasil Ltda – Cepi 23050

Caixa Postal 123
Campinas – SP – Brazil
Cep. 13001-970
55 19 864.7143
55 19 864.7637 FAX

3M Mexico, S.A. de C.V.

Av. Santa Fe No. 55
Col. Santa Fe, Del. Avaro Obregón
México D.F. 01210
52 5 270.0400
52 5 270.2299 FAX

3M Puerto Rico, Inc.

Puerto Rico Industrial Park
PO Box 100
Carolina, PR 00986-0100
787.750.3000
787.750.3035 FAX

3M Asia Pacific Pte. Ltd.

9, Tagore Lane
Singapore 787472
Republic of Singapore
65 454.8611
65 456.8953 FAX