# **3M**Lithographers Tape 616

<b>Product Description</b>	3M <sup>TM</sup> Lithographers Tape 616 is an optically transparent and photographically opaque tape.			
Construction	Backing	Adhesive	Color	Standard Roll Length
	Unplasticized polyvinylchloride (UPVC)	Rubber	Ruby Red	72 yds. (66 m)
Typical Physical Properties and Performance Characteristics	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.  ASTM Test Metho			
	Adhesion to Steel:	36 oz./in. width (39 N/100 mm)		D-3330
	Tensile Strength at Break:	29 lbs./in. width (509 N/100 mm)		D-3759
	Elongation at Break:	50%		D-3759
	Backing Thickness:	1.6 mils (.04 mm)		D-3652
	Total Tape Thickness:	2.4 mils (.06 mm)		D-3652
Features	• Can be qualified to meet MIL-T-40620A.			
	<ul> <li>Ruby Red UPVC film backing to allow accurate positioning.</li> </ul>			
	<ul> <li>Resists affects of changing atmospheric conditions to allow repeated and extended "burn" times.</li> </ul>			
	<ul> <li>Low caliper backing to minimize ghosting and provide sharper definition.</li> </ul>			
	<ul> <li>Pin-hole free backing to provide continuous opacity to light source to help minimize retouching.</li> </ul>			
	• Firm adhesive which is long aging and resistant to softening to resist oozing during application and storage.			

#### **Application Ideas**

- Opaquing, stripping and edging.
- Splicing.

### 3M<sup>™</sup> Lithographers Tape

616

#### **Major Industries**

• Graphic Arts; Printed Circuit Board; Paper.

#### **Storage**

Store under normal conditions of 70°F (21°C) and 50% relative humidity.

#### **Shelf Life**

To obtain best performance, use this product within one year from date of manufacture.

#### **Product Use**

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors 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

Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, 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 application. If the 3M product is defective within the warranty period, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to replace the product or refund the purchase price.

#### **Limitation of Liability**

Except where prohibited by law, 3M and seller 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 warranty, contract, negligence or strict liability.

ISO 9001:2000

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





