

Technical Data Sheet

3M™ Lithographers Tape 616

Product Description

3M™ Lithographers Tape 616 is an optically transparent and photographically opaque tape.

Product Features

- Ruby Red UPVC film backing to allow accurate positioning.
- Resists effects of changing atmospheric conditions to allow repeated and extended "burn" times.
- Low caliper backing to minimize ghosting and provide sharper definition.
- Pin-hole free backing to provide continuous opacity to light source to help minimize retouching.
- Firm adhesive which is long aging and resistant to softening to resist oozing during application and storage.

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

Property	Values	Additional Information		
Backing	Unplasticized polyvinylchlo	Unplasticized polyvinylchloride (UPVC)		
Adhesive Type	Rubber			
Color	Ruby Red			

Backing Thickness (mm)	0.04 mm	View ^
Test Method: ASTM D3652		
Total Tape Thickness (mil)	2.4 mil	View ^

Test Method: ASTM D3652

Total Tape Thickness (mm)	0.06 mm	View ^
Test Method: ASTM D3652		



Backing Thickness	1.6 mil	View ^
Test Method: ASTM D3652		
ypical Performance Characterist	ics	
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Property	Values	Additional Information
Tensile Strength	50.8 N/cm	View ^
Test Method: ASTM D3759		
180° Peel Adhesion	3.9 N/cm	View ^
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	36 oz/in	View ^
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
Tensile Strength	464 oz/in	View ^
Test Method: ASTM D3759		
Elongation at Break (%)	50 %	View ^
Test Method: ASTM D3759		
Long Term Temp C	49 °C	View ^
Test Condition: Long Term (day, weeks)		
Long Term Temp F	120 °F	View ^
Test Condition: Long Term (day, weeks)		
vailable Sizes		
Property	Values	Additional Information
Standard Roll Length	66 m	
Standard Roll Length	72 yd	



Storage and Shelf Life

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material. To obtain best performance, use this product within 12 months from date of manufacture.

Bottom Matter

3M Industrial Adhesives and Tapes Division 3M Center, Building 225-3S-06 St. Paul, MN 55144-1000 800-362-3550

Handling/Application Information

Application Examples

- Opaquing, stripping and edging.
- Splicing.
- Major Industries: Graphic Art, Printed Circuit Board, Paper.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40068069/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/? gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=616

Family Group

Link Tags:



Products	Backing	Adhesive Type	Color	Total Tape Thickness (mm)	Tensile Strength	Long Term Temp C	Long Term Temp F
616	Unplasticized polyvinylchloride (UPVC)	Rubber	Ruby Red	0.06 mm	50.8 N/cm	49 °C	120 °F

ISO Statement

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

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