



3M™ Polyethylene Tape 483

Last Revision Date: April, 2011

Product Description

3M™ Polyethylene Tape 483 has a polyethylene backing with a rubber adhesive for many general purpose applications including sealing, color coding, protecting, moisture proofing. Black tape has excellent U.V. resistance and can be used outdoors for up to 12 months.

Product Features

- Tape stretches easily and is highly conformable for a tight seal around irregular surfaces.
- Polyethylene backing provides good solvent and alkali resistance properties.
- Remains flexible to -20°F (-29°C).

Note: Should not be exposed to temperatures which exceed 170° to 200°F (77° to 93°C). Exposure to such temperatures may result in softening of backing.

- Vivid colors and smooth backing provide excellent glossy appearance.
- Low sulfur and halogen content.
- Low water vapor transmission rate.
- Best results are attained when applied to a clean, dry surface at temperatures between 60° to 80°F (16° to 27°C).



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	Polyethylene	

Adhesive Type	Rubber
Color	Transparent Red Blue White Black Yellow

Backing Thickness	0.1 mm (3.9 mil)	View 
Test Method: ASTM D3652		
Total Tape Thickness	5 mil (0.13 mm)	View 

Test Method: ASTM D3652

Total Tape Thickness	0.13 mm	View	^
Test Method: ASTM D3652			

Backing Thickness	3.9 mil	View	^
-------------------	---------	------	---

Test Method: ASTM D3652

Low Leachable Halogen and Sulfur	Pass (only black, yellow and white tested)	View	^
Test Method: MIL-STD-2041D(SH)			

Outdoor Weatherability	(Black only) Up to 12 month	View	^
------------------------	-----------------------------	------	---

Test Method: ASTM G155 Cycle 1

Typical Performance Characteristics

Property	Values	Additional Information	
Tensile Strength	17.5 N/cm (160 oz/in)	View	^

Test Method: ASTM D3759

180° Peel Adhesion	1.3 N/cm (12 oz/in)	View	^
Test Method: ASTM D3330			
Notes: 12 in/min (300 mm/min)			
180° Peel Adhesion	12 oz/in	View	^

Test Method: ASTM D3330

Notes: 12 in/min (300 mm/min)

Tensile Strength	160 oz/in	View	^
Test Method: ASTM D3759			

Elongation at Break	300 %	View	^
---------------------	-------	------	---

Test Method: ASTM D3759

Long Term Temperature Resistance	93 °C (200 °F)		

Long Term Temperature Resistance	200 °F
----------------------------------	--------

Available Sizes

Property	Values	Additional Information
Standard Roll Length	33 m (36 yd)	
Standard Roll Length	36 yd	

Storage and Shelf Life

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton.
To obtain best performance, use this product within 18 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 • 877-369-2923 (Fax)
www.3M.com

Trademarks

3M is a trademark of 3M Company.

Handling/Application Information

Application Examples

- General sealing of containers and irregular shaped objects.
- Electroplating and P.C. board masking.
- Silicone chip holding.
- Decorative, safety marking and color coding.
- Nuclear power plant construction and maintenance - (because of low chloride and halogen content).
- Corrosion sensitive applications - (because of low chloride and halogen content).
- Outdoor applications of sealing, protecting, and preserving (black colored tape only).

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/~/3M-Polyethylene-Tape-483/?N=5002385+3293241700&rt=rud
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=483

ISO Statement

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

Information

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and Use: Many factors beyond 3M’s control and uniquely within user’s knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer’s application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M’s option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Disclaimer: 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.