

Technisches Datenblatt

3M™ Polyethylene Tape 483

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


Test Method: ASTM D3652

Total Tape Thickness (mm)	0.13 mm	View 
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Test Method: ASTM D3652

Backing Thickness	3.9 mil	View 
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Test Method: ASTM D3652

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

Outdoor Weatherability	(Black only) Up to 12 month	View 
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Test Method: ASTM G155 Cycle 1

Typical Performance Characteristics

Property	Values	Additional Information
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Tensile Strength	17.5 N/cm	View 
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Test Method: ASTM D3759

180° Peel Adhesion	1.3 N/cm	View 
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Test Method: ASTM D3330

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

180° Peel Adhesion	12 oz/in	View 
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Test Method: ASTM D3330

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

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

Elongation at Break (%)	300 %	View 
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Test Method: ASTM D3759

Long Term Temp C	93 °C	View 
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Test Condition: Long Term (day, weeks)

Long Term Temp F

200 °F

View 

Test Condition: Long Term (day, weeks)

Available Sizes

Property	Values	Additional Information
Standard Roll Length	33 m	
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
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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/p/d/b40071911/
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.

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