

April, 2011

## 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).



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## 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		Method
Color	Transparent, red, blue, white, black, yellow		
Total Tape Thickness	0.13 mm	5 mil	ASTM D3652
Backing Thickness	0.1 mm	3.9 mil	ASTM D3652
Backing	Polyethylene		
Adhesive	Rubber		
Low Leachable Halogen and Sulfur	Pass (only black, yellow and white tested)		MIL-STD-2041D(SH)
Outdoor Weathering	(Black only) Up to 12 month		ASTM G155 Cycle 1

## Typical Performance Characteristics

Property	Values		Method	Substrate
Peel Adhesion	1.3 N/cm	12 oz/in	ASTM D3330	Stainless Steel
Tensile Strength	17.5 N/cm	160 oz/in	ASTM D3759	
Elongation at Break	300 %		ASTM D3759	
Temperature Use Range	Up to 93 °C	Up to 200 °F		

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## Available Sizes

Property	Values	
Standard Roll Length	33 m	36 yd

## Handling/Application Information

### Application Ideas

- 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).

### 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.

### Trademarks

3M is a trademark of 3M Company.

### References

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

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## 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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