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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 Weatherability	(Black only) Up to 12 month		ASTM G155 Cycle 1

Typical Performance Characteristics

Property	Values		Method	Dwell/Cure Time	Substrate	Notes
180° Peel Adhesion	1.3 N/cm	12 oz/in	ASTM D3330	Initial	Stainless Steel	12 in/min (300 mm/min)
Tensile Strength	17.5 N/cm	160 oz/in	ASTM D3759			

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Typical Performance Characteristics (continued)

Property	Values		Method	Dwell/Cure Time	Substrate	Notes
Elongation at Break	300 %		ASTM D3759			
Temperature Use Range	Up to 93 °C	Up to 200 °F				

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.

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References

Property	Values	Method
3m.com Product Page	https://www.3m.com/3M/en_US/company/us/all-3m-products/~/3M-Polyethylene-Tape-483?N=5002385+3293241700&rt=rudmil	ASTM D3652
Safety Data Sheet (SDS)	https://www.3m.com/3M/en_US/company/us/SDS-search/results?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=483in	ASTM D3652

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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Information

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