



Technical Data Sheet

3M™ Polyethylene Tape 483



[Product Details](#)

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

| Attribute Name | Test Method | Value |
|----------------------------------|-------------------|--|
| Color | | Transparent Red Blue White Black Yellow |
| Adhesive Type | | Rubber |
| Backing | | Polyethylene |
| Backing Thickness | ASTM D3652 | 0.1 mm (3.9 mil) |
| Total Tape Thickness | ASTM D3652 | 0.13 mm (5 mil) |
| Outdoor Weatherability | ASTM G155 Cycle 1 | (Black only) Up to 12 m |
| Low Leachable Halogen and Sulfur | MIL-STD-2041D(SH) | Pass (only black, yellow and white tested) |

Typical Performance Characteristics

| Attribute Name | Test Method | Temperature | Value |
|----------------------------------|-------------|---------------|----------------------------------|
| 180° Peel Adhesion | ASTM D3330 | 23 °C (73 °F) | 1.3 N/cm (12 oz/in) ¹ |
| Elongation at Break | ASTM D3759 | | 300 % |
| Tensile Strength | ASTM D3759 | | 17.5 N/cm (10 lb/in) |
| Long Term Temperature Resistance | | | 93 °C (200 °F) ² |

¹ 304 mm/min (12 in/min)

² Long Term (day, weeks)

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).

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 18 months from date of manufacture.

Available Sizes

| Attribute Name | Value |
|-----------------------|--------------|
| Standard Roll Length | 33 m (36 yd) |

Information

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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