

# Technical data sheet



Product: 4492

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

Article group: DOPPELSEITIG

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## 3M DOUBLE COATED POLYETHYLENE TAPE 4492B

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# Technical Data Sheet

3M™ Double Coated Polyethylene Foam Tape  
4492B



Product Details



Regulatory Info/SDS

## Product Description

3M™ Double Coated Polyethylene Foam Tapes 4492B combine a conformable closed cell foam with a high strength acrylic adhesive that provides good initial tack and offers high ultimate adhesion to a wide variety of surfaces.

## 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	Value
Foam Color	Black
Adhesive Type	430 (Acrylic Adhesive)
Foam Density	95 kg/m <sup>3</sup> (6 lb/ft <sup>3</sup> )
Adhesive Carrier	Closed Cell Crosslinked Polyethylene Foam

Attribute Name	Value
Thickness Tolerance	0.6 — 1 mm (25 — 45 mil)
Thickness: Nominal	0.8 mm (31 mil)
Liner	Paper
Liner Thickness	0.08 mm (3 mil)
Primary Liner Color	Tan

## Typical Performance Characteristics

Temperature: 23 °C (73 °F)

Dwell Time: 72 h

Attribute Name	Test Method	Substrate	Backing	Value
90° Peel Adhesion	ASTM D3330	Stainless Steel	5 mil Aluminum Foil	14 N/cm (128 oz/in) <sup>1</sup>
Normal Tensile	ASTM D897	Aluminum		415 kPa (60 lb/in <sup>2</sup> ) <sup>2</sup>

<sup>1</sup> 304 mm/min (12 in/min)

<sup>2</sup> 6.45 cm<sup>2</sup> (1 in<sup>2</sup>), Jaw Speed 51 mm/min (2 in/min)

## Static Shear

Test Method: ASTM D3654

Temperature	Value
23 °C (73 °F)	1,000 g <sup>1</sup>
49 °C (120 °F)	500 g <sup>1</sup>
70 °C (158 °F)	250 g <sup>1</sup>

<sup>1</sup> 13 x 25 mm (0.5 x 1 in) sample area, test terminated at 10,000 minutes

Attribute Name	Temperature	Value
Short Term Temperature Resistance		82 °C (180 °F) <sup>1</sup>
Long Term Temperature Resistance		70 °C (158 °F) <sup>2</sup>
Cold Flex	-30 °C (-20 °F)	No cracking when flexed around a 1/4 in (6.4 mm) mandrel.

<sup>1</sup> Short Term (minutes, hour)

<sup>2</sup> Long Term (day, weeks)

Temperature: 23 °C (73 °F)

Attribute Name	Test Method	Value
Overlap Shear Strength	ASTM D1002, ISO 4587	380 kPa (55 lb/in <sup>2</sup> ) <sup>1</sup>

<sup>1</sup> 6.45 cm<sup>2</sup> (1 in<sup>2</sup>), Jaw Speed 12.7 mm/min (0.5 in/min)

### **Typical Environmental Performance**

Attribute Name	Value
Solvent Resistance	No apparent degradation when exposed to splash testing of typical hydrocarbon solvents. (Splash testing cycle - 20 seconds submersion, 20 sec. air dry, 3 cycles)
UV Resistance	No apparent degradation when exposed for seven days in U.V. chamber.

### **Handling/Application Information**

#### **Application Examples**

- The foam construction makes these products ideal for many joining, mounting, gasketing, and sealing applications involving irregular surfaces.
- 3M™ Double Coated Polyethylene Foam Tapes 4492 and 4496 are formulated for more demanding indoor and moderate outdoor general purpose mounting and joining applications.
- Application ideas for these tapes include:
  - Signs, Nameplates and Plaques
  - Point of Purchase and other Displays
  - Plastic Hooks, Racks and Dispensers
  - Wire and Cable Clips
  - Appliance, Display Case and Electronic Equipment Trim

## Application Techniques

- Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improve bond strength.
- To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Typical surface cleaning solvents are isopropyl alcohol and water (rubbing alcohol) or water. Note: Be sure to follow the manufacturer's precautions and directions for use when using cleaning solvents.
- Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

## Application Equipment

To apply adhesives in a wide web format, lamination equipment is required to ensure acceptable quality. To learn more about working with pressure-sensitive adhesives please refer to technical bulletin, Lamination Techniques for Converters of Laminating Adhesives (70-0704-1430-8).

For additional dispenser information, contact your local 3M sales representative, or the toll free 3M sales assistance number at 1-800-362-3550.

## 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 24 months from date of manufacture.

## Available Sizes

Attribute Name	Value
Available Width	3.2 — 1219 mm (1/8 — 48 in) <sup>1</sup>
Maximum Length	160 m (175 yd)
Normal Slitting Tolerance	±0.8 mm (±1/32 in)
Standard Roll Length	65.8 m (72 yd)

<sup>1</sup> Slit rolls 3.2 mm (1/8 in) up to 13 mm (0.5 in) are only available in standard lengths.

## Automotive Disclaimer

### Select Automotive Applications:

This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

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## **ISO Statement**

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

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