

Technical data sheet



Product: 4032

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

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3M DOUBLE COATED URETHANE FOAM TAPE 4032

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Technical Data Sheet

3M™ Double Coated Urethane Foam Tape
4032



[Product Details](#)



[Regulatory Info/SDS](#)

Product Description

3M™ Double Coated Urethane Foam Tapes are conformable foams that offer high shear strength with a high temperature holding acrylic adhesive system for bonding to various types of surfaces for mounting, joining and holding.

Product Features

- The natural colored urethane foam tape products vary in color from white to light yellow. The color will change to light yellow upon exposure to sunlight (ultraviolet radiation). This color change is normal and does not affect tape performance.

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
Color	Natural
Adhesive Type	100
Foam Density	320 kg/m ³ (20 lb/ft ³)
Adhesive Carrier	Polyurethane Foam

Attribute Name	Value
Thickness Tolerance	0.64 to 1.02 mm (25 to 40 mil)
Thickness: Nominal	0.8 mm (31 mil)
Liner Thickness	0.08 mm (3 mil)
Primary Liner Color	Green Plaid

Typical Performance Characteristics

Static Shear

Temperature	Value
22 °C (72 °F)	2,000 g
49 °C (120 °F)	1,500 g
66 °C (150 °F)	1,000 g
93 °C (200 °F)	1,050 g

Substrate: Aluminum
Temperature: 22 °C (72 °F)
Dwell Time: 72 h

Attribute Name	Test Method	Value
Normal Tensile	ASTM D897	414 kPa (60 lb/in ²) ¹

¹ 1 in.² (6.45 cm²), Jaw Speed 2 in./min. (50 mm/min.)

Attribute Name	Temperature	Value
Short Term Temperature Resistance		193 °C (380 °F) ¹
Long Term Temperature Resistance		104 °C (220 °F) ²
Cold Flex	-30 °C (-20 °F)	No cracking when flexed around a 1/4 in (6.4 mm mandrel).

¹ Short Term (minutes, hour)

² Long Term (day, weeks)

Attribute Name	Value
Elongation at Break	90 %
Tensile Strength	1655 kPa (240 lb/in ²)

Typical Environmental Performance

Attribute Name	Value
Solvent Resistance	No apparent degradation when exposed to splash tests of most hydrocarbon solvents.
UV Resistance	No apparent degradation when exposed to 7 days in U.V. chamber.

Electrical and Thermal Properties

Attribute Name	Test Method	Value
Dielectric Strength	ASTM D149	8 to 12 V/μm
Thermal Conductivity		0.062 W/m/K (0.036 (btu-in)/(h-ft ² -°F))

Handling/Application Information

Application Examples

The urethane foam tapes are generally ideal for interior applications or for exterior applications where the tape will be protected from the environment. The urethane foam is open cell.

3M™ Double Coated Urethane Foam Tape 4032 - Attach wire clips to various surfaces

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 heptane.
- 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.

*Note: Be sure to follow the manufacturer's precautions and directions for use when using solvents.

Storage and Shelf Life

Store in original cartons at 70°F (21°C) and 50% relative humidity.

To obtain best performance, use these products within 24 months from date of manufacture.

Available Sizes

Attribute Name	Value
Available Width	1168 mm (46 in)
Maximum Length	160 m (175 yd)
Normal Slitting Tolerance	±0.8 mm (±1/32 in)
Note	Subject to Minimum Order Requirements
Standard Roll Length	65.8 m (72 yd)

Recognition/Certification

MSDS: 3M has not prepared MSDSs for these products which are not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, these products should not present a health and safety hazard. However, use or processing of the products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards.

TSCA: These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

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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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