



# Double Coated Elastomeric Tape

## 4921

Technical Data

July, 2001

Supersedes August, 1994

**Product Description**      **4921**    1/64 in. (0.4 mm) double coated elastomeric foam tape.

### Construction

Product	Tape 4921
Adhesive Type:	100*
Adhesive Carrier:	Elastomeric Foam
Thickness: Nominal	1/64 in., 0.016 in. (0.4 mm)
Tolerance	0.010-0.022 in. (0.25-0.56 mm)
Color:	Natural
Release Liner:	0.003 in. (0.08 mm) Green Plaid Paper 62# Densified Kraft
Approximate Density: (Foam Only)	32 lb./ft. <sup>3</sup> (510 kg/m <sup>3</sup> )

\*100 is a firm acrylic pressure sensitive adhesive system. It features high ultimate bond strength, very good high temperature and solvent resistance, and very high shear holding power. Bond strength increases substantially with natural aging.

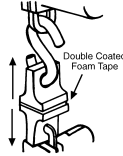
# 3M™ Double Coated Elastomeric Tape

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## Typical Physical Properties and Performance Characteristics

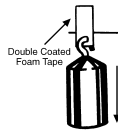
**Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.**

Normal Tensile:  
("T" Block)  
1 in.<sup>2</sup> (6.45 cm<sup>2</sup>)  
Jaw Speed  
2 in/min  
(50 mm/min)



95 psi  
(655 kPa)

Static Shear:



(Measured at various temperature & gram loadings. (1/2 sq. in. overlap). Will hold listed weight for 100 hrs.)

72°F (22°C)	1000
120°F (49°C)	1000
150°F (66°C)	500

Tensile Strength: 600 psi (4135 kPa)

Elongation: 800+%

Temperature Resistance:

Short Term (Minutes, Hours) 200°F (93°C)

Long Term (Days, Weeks) 150°F (66°C)

Solvent Resistance: No apparent degradation when exposed to splash testing of most hydrocarbon solvents

UV Resistance: Not recommended for direct exposure to sunlight or other sources of U.V. light.

Cold Flex at -20°F (-30°C): No cracking when flexed around a 1/4 in. (6.4 mm) mandrel

Thermal Conductivity: 0.062 BTU Ft./Ft.<sup>2</sup> Hr. °F (0.107 W/m•K)

Dielectric Strength: 400-500 volts/mil (400-500 volts/0.025 mm)

Shelf Life: 18 months from date of manufacture when stored in original cartons at 70°F (21°C) and 50% relative humidity.

## Available Sizes

### Product

### Tape 4921

Roll Length

(Subject to Minimum Order Requirements):

Standard 72 yds. (65.8 m)

Maximum 175 yds. (160 m)

Roll Width

(Subject to Minimum Order Requirements):

Minimum 1/4 in., 0.250 in. (6.4 mm)

Maximum 38 in. (965 mm)

Slitting Tolerance: ± 1/32 in., ± 0.031 in. (± 0.8 mm)

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## 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. **Note:** Be sure to follow manufacturer's safety precautions and directions for use when using solvents. These cleaning recommendations may not be compliant with the rules of certain Air Quality Management Districts in California; consult applicable rules before use.
- 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.

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## Application Ideas

Tape 4921 is designed with a thin glue line which make it ideal in many applications for holding wood, plastic or metal trim or attachment of nameplates, particularly if vibration resistance may be required.

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## Recognition/ Certification

**MSDS:** 3M has not prepared a MSDS for this product which is 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, the product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

**TSCA:** This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements.

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## For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit [www.3M.com/bonding](http://www.3M.com/bonding). Address correspondence to: 3M Engineered Adhesives Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

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ISO 9002

This Engineered Adhesives Division product was manufactured under a 3M quality system registered to ISO 9002 standards.

**3M**

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