## **3M Double Coated Elastomeric Tape** 4921

Technical Data		August, 1994		
		Supersedes August, 198		
Product Description	<b>4921</b> 1/64 in. (0.4 mm) double	e coated elastomeric foam tape.		
Construction	Product	4921 Tape		
	Adhesive Type:	A-20*		
	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		
	Approximate Density: (Foam Only)	32 lb./ft. <sup>3</sup> (510 kg/m <sup>3</sup> )		
	*A-20 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.			
Typical Physical Properties and Performance Characteristics	or typical only and should Normal Tensile: ("T" Block)	("T" Block) (H)		
	1 in. <sup>2</sup> (6.45 cm <sup>2</sup> ) Jaw Speed 2 in/min (50 mm/min) Static Shear:	95 psi (655 kPa)		
	(Measured at various temperature & gram loadings. (1/2 sq. in. overlap). Will hold listed weight for 100 hrs. 150°F (66°C)	1000 1000 500		
	Tensile Strength:	600 psi (4135 kPa)		
	Elongation:	800+%		
	Temperature Resistance: Short Term (Minutes, Hours)	200°E (02°C)		
		200°F (93°C)		
	Long Term (Days, Weeks) Solvent Resistance:	150°F (66°C) No apparent degradation when exposed to splash testir		
	Solvent Resistance.	of most hydrocarbon solvents		
	UV Resistance:	Not recommended for direct exposure to sunlight or oth 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		

## **Double Coated Elastomeric Tapes** 4921

<ul> <li>unified. Typical surface cleaning solvents are isopropyl alcohol and water (rub alcohol) or heptane. Note: Be sure to follow manufacturer's safety precautions directions for use when using solvents.</li> <li>Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initi tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. Howe once properly applied, low temperature holding is generally satisfactory.</li> <li>Application Ideas</li> <li>4921 tape is designed with a thin glue line which make it ideal in many applicatio for holding wood, plastic or metal trim or attachment of nameplates, particularly vibration resistance may be required.</li> <li>For Additional To request additional product information or to arrange for sales assistance, call toll free 1-800-227. Address correspondence to: 3M Industrial Tape and Specialite Division. 3M Center, Building 220-6 St. Paul, MN 56144-1000. Our fax number is 612-733-9175. In Canada, phone: 1-519-451-2500. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-0400.</li> <li>Important Notice</li> <li>3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, AN IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. U responsible for determining whether the 3M product is fit for a particular apused and suitable for us and the time and environmental conditions in which the product. Surface preparation of those materials, the product selected for use, the conditions in which the surface merging and ontorid. It is essential that the user of WITSD product. Given are and performance of a 3M ITSD product, some of which are uniquely within th user's knowledge and control, it is sessifiat that the user of WITSD product. Given are anong to many factors and fact the use and performance of a 3M ITSD product, some of which the product to us and the time and environmental conditions in which the diret chindin</li></ul>	Available Sizes	Product	492	21 Tape		
Order Requirements):       12 yds. (65.8 m)         Maximum       175 yds. (160 m)         Roll With       (Subject to Minimum)         Order Requirements):       11/4 in0250 in. (6.4 mm)         Maximum       38 in. (965 mm)         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 (rub alcohol) or heptane. Note: Be sure to follow manufacturer's safety precautions directions for use when using solvents.         • Ideal tape application temperature tage is 70°F to 100°F (21°C to 38°C). Initi tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. Howe once properly applied, low temperature holding is generally satisfactory.         Application Ideas       4921 tape is designed with a thin glue line which make it ideal in many applicati for holding wood, plastic or metal trim or attachment of nameplates, particularly vibration resistance may be required.         Information       To request additional product information to arrange for sales assistance, call tol free 1-800-227 St. Fau. NN 55144-1000. Our its nome is 12/733-178. In Canada, phone1519-451-2500. In Medic						
Standard       72 yds; (65.8 m)         Maximum       175 yds; (160 m)         Roll Width       (Subject to Minimum         Order Requirements):       1/4 in., 0.250 in, (6.4 mm)         Minimum       38 in, (965 mm)         Sitting Tolerance:       + 1/32 in., + 0.031 in. (+ 0.8 mm)         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 (rub alcohol) or heptane. Note: Be sure to follow manufacturer's safety precautions directions for use when using solvents.         • Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initi tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. Howe once properly applicad, low temperature holding is generally satistactory.         Application Ideas       4921 tape is designed with a thin glue line which make it ideal in many applicati for holding wood, plastic or metal trim or attachment of nameplates, particularly vibration resistance may be required.         Information       To request additional product information or to arrange for sales assistance, call toll free 1480-227. Address correspondence to: 50-500.00. In Mixeo, phone: 1-519-451-2500.01. In Mixeo, phone: 1-519-451-2500.01. In Mixeo, phone: 1-519-451-2500.01. In Mixeo, phone: 1-519-451-2500.01. In Mixeo, phone: 1-519-451-2500.00						
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For Additional Information       To request additional product information or to arrange for sales assistance, call toll free 1-800-227. Address correspondence to: 3M Industrial Tape and Specialties Division, 3M Center, Building 220-6 St. Paul, MN 55144-1000. Our fax number is 612-739-9175. In Canada, phone: 1-519-451-2500. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-0400.         Important Notice       3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, AN IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. U responsible for determining whether the 3M product is fit for a particular purpose and suitable for us method of application. Please remember that many factors can affect the use and performance of a ITSD product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is a and the time and environmental conditions in which the product. Given the variety of fa that can affect the use and performance of a 3M ITSD product. Given the variety of fa that can affect the use and performance of a 3M ITSD product. Given the variety of tha that can affect the use and performance of a 3M ITSD product. Given the variety of tha that can affect the use and performance of a 3M ITSD product. Given the variety of tha that can affect the use and performance of a 3M ITSD product. Given the variety of tha that can affect the use and performance of a 3M ITSD product. Some of which are uniquely within th user's knowledge and control, it is essential that the user's method of application.         Limitation of Remedies and Liability       If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be l		for holding wood, plastic or metal trim or attachment of nameplates, particularly if				
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