English-US

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Technical Data Sheet

3M™ Double Coated Tapes 9495MPF

Product Details

Product Description

3M™ Double Coated Tape 9495MPF is a double coated film tape which features a clear polyester film liner, 200MP acrylic adhesive, and a thin clear polyester film carrier.

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	Test Condition	Value
Color			Clear
Adhesive Carrier			PET
Adhesive Thickness		Faceside	0.07 mm (2.9 mil) [1]
Adhesive Thickness		Backside	0.06 mm (2.3 mil) [2]
Carrier Thickness	PSTC-133		0.01 mm (0.5 mil)
Total Tape Thickness	ASTM D3652		0.14 mm (5.7 mil)
Liner			Clear PET
Liner Thickness			0.051 mm (2.0 mil)

[1] Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.

[2] Backside adhesive is on the exterior of the roll, exposed when liner is removed.

Typical Performance Characteristics

Backing: 2 mil Aluminum Foil
Test Method: ASTM D3330

Attribute Name	Dwell Time	Temperature	Substrate	Value
90° Peel Adhesion	15 min	23 °C (73 °F)	Stainless Steel	5.7 N/cm (52 oz/in) [1]
90° Peel Adhesion	72 h	23 °C (73 °F)	Stainless Steel	9.8 N/cm (89 oz/in) [1]
90° Peel Adhesion	72 h	70 °C (158 °F)	Stainless Steel	10.7 N/cm (97 oz/in) [1]
180° Peel Adhesion	72 h	23 °C (73 °F)	Stainless Steel	10.0 N/cm (91 oz/in) [1]
90° Peel Adhesion	72 h	23 °C (73 °F)	Aluminum	9.1 N/cm (83 oz/in) [1]
90° Peel Adhesion	72 h	23 °C (73 °F)	ABS	6.9 N/cm (63 oz/in) [1]
90° Peel Adhesion	72 h	23 °C (73 °F)	Acrylic (PMMA)	6.5 N/cm (59 oz/in) [1]
90° Peel Adhesion	72 h	23 °C (73 °F)	Polycarbonate (PC)	9.6 N/cm (87 oz/in) [1]

[1] 300 mm/min (12 in/min)

Static Shear

Substrate: Stainless Steel
Dwell Time: 72 h
Backing: 2 mil Aluminum Foil
Test Method: ASTM D3654

Temperature	Test Condition	Value
23 °C (73 °F)	1000 g	10,000 min [1]
70 °C (158 °F)	500 g	10,000 min [1]

[1] 25 x 25 mm (1 in x 1 in) sample area, test terminated after 10,000 minutes

Substrate: Stainless Steel
Test Condition: 500 g
Test Method: ASTM D3654

Attribute Name	Value
Short Term Temperature Resistance	177 °C (350 °F) [1]
Long Term Temperature Resistance	149 °C (300 °F) [2]

[1] Maximum temperature where tape supports indicated load per 6.5cm² (1 in²) in static shear for 60 minutes.
[2] Maximum temperature where tape supports indicated load per 6.5cm² (1 in²) in static shear for 10,000 minutes.

Electrical and Thermal Properties

Attribute Name	Test Method	Temperature	Test Condition	Value
Thermal Conductivity	ASTM C518	43 °C (109 °F)		0.186 W/m·K [1]
Coefficient of Thermal Expansion	ASTM D696		First Heat	4.84 x 10^{-1} m/m/°C

[1] results listed are at 43 °C (109° F)

Attribute Name	Test Method	Temperature	Test Condition	Value
Dissipation Factor	ASTM D150	23 °C (73 °F)		0.019
Dielectric Strength	ASTM D149		500 vac, rms[60 hz/sec]	1,354 V/mil
Volume Resistivity	ASTM D257	23 °C (73 °F)		2.7 X 10^{14} Ω-cm
Breakdown Voltage				7,200 V

Handling/Application Information

Application Techniques

For maximum bond strength the surface should be thoroughly cleaned and dried. Typical cleaning solvents are heptane or isopropyl alcohol.*

*Note: Follow the manufactuer's precautions and directions for use when using solvents.

• Bond strength is dependent upon the amount of adhesive to surface contact developed. Firm application pressure helps develop better adhesive contact and thus improve bond strength.

• 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 for most pressure-sensitive adhesives because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

Application Examples

• Graphic overlays
• Nameplates
• LED Lenses
• Appliques
• Decorative Trim

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.

Information

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