



Double Coated Tapes

9495MP • 9495B • 9690 • 9690B

Technical Data

October, 1998

Product Description	9495MP 0.0048 in. (0.12 mm) thick Double Coated Film Tape
	9495B 0.0048 in. (0.12 mm) thick Black Double Coated Film Tape
	9690 0.0048 in. (0.12 mm) thick Double Coated Film Tape
	9690B 0.0048 in. (0.12 mm) thick Black Double Coated Film Tape

These double coated film tapes feature a thin polyester film for dimensional stability and improved handling with ease of die cutting and laminating. Tapes 9495B and 9690B have a black polyester film to provide opacity or visibility. The #200MP “Hi-Performance” acrylic adhesive on Tapes 9495MP and 9495B provides exceptional temperature and chemical resistance while the #300MP “Hi-Strength” acrylic adhesive on Tapes 9690 and 9690B offers excellent adhesion to many plastics and good shear strength.

Construction	Tape	9495MP/9495B	9690/9690B
Face Side Adhesive:		2.3 mil #200MP (0.06 mm)	2.3 mil #300MP (0.06 mm)
Adhesive Carrier:		0.5 mil Polyester/Black (0.013 mm)	0.5 mil Polyester/Black (0.013 mm)
Backside Adhesive:		2.0 mil #200MP (0.05 mm)	2.0 mil #300MP (0.05 mm)
Release Liner:		58# Polycoated Kraft Printed	86# Polycoated Kraft Printed
Approximate Thickness:			
Release Liner		0.004 in. (0.1 mm)	0.0064 in. (0.16 mm)
Tape Only		0.0048 in. (0.12mm)	0.0048 in. (0.012 mm)
Tape Color:		Clear/Black	Clear/Black

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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.

Tape	9495MP/9495B	9690/9690B
Adhesion to Steel: (ASTM D3330)	100 oz./in. width (109 N/100 mm)	95 oz./in. width (104 N/100 mm)
Relative High Temperature Operating Ranges:		
Short Term: (Minutes, Hours)	300°F (149°C)	300°F (149°C)
Long Term: (Days, Weeks)	250°F (121°C)	150°F (66°C)
Relative Solvent Resistance:	Excellent	Very Good
Shelf Life of Tape In Roll Form:	24 months from date of manufacture when stored in original cartons at 70°F (21°C) and 50% relative humidity.	

Available Sizes

Tape	9495MP/9495B	9690/9690B
Maximum:		
1/2 in. to 63/64 in.	180 yds. (165 m)	180 yds. (165 m)
1 in. to 54 in.	360 yds. (329 m)	360 yds. (329 m)
Normal Slitting Tolerance:	± 1/32 in. (0.8 mm)	± 1/32 in. (0.8 mm)
Core Size (ID):	3.0 in. (76.2 mm)	3.0 in. (76.2 mm)

Typical Adhesion Properties

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

Peel Strength:

Peel Adhesion (ASTM D3330)
(90° Peel, Room Temperature Conditions)

Surface	Product	15 Min. Dwell		72 Hr. Dwell	
		Oz./In.	N/100 mm	Oz./In.	N/100 mm
Stainless Steel	9495MP/9495B	85	(93)	100	(109)
	9690/9690B	45	(49)	95	(104)
Acrylic	9495MP/9495B	45	(49)	60	(66)
	9690/9690B	45	(49)	50	(55)
Polycarbonate	9495MP/9495B	45	(49)	60	(66)
	9690/9690B	40	(44)	45	(49)

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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 manufacturer'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.

General Information

- Tapes 9495MP, 9495B, 9690 and 9690B have a moisture resistant polycoated kraft liner which can withstand high humidity conditions with minimal cockling or wrinkling.
- Tapes 9495MP, 9495B, 9690 and 9690B have a film carrier which can add dimensional stability to foams and other substrates. The carrier also makes it easier to handle the tape including slitting and die-cutting.

Features

- A thin polyester carrier in the products provides dimensional stability and improved handling with ease of die cutting and laminating compared to adhesive transfer tapes.
- Moisture stable liner improves processing of parts and ease of liner removal.
- #200MP “Hi-Performance” acrylic adhesive on tape 9495MP/9495B provides exceptional temperature and chemical resistance and withstands tough application environments.
- #300MP “Hi-Strength” acrylic adhesive on tape 9690/9690B is a very smooth adhesive and provides a high bond to most surfaces including plastics.

Application Ideas

- Tapes 9495MP/9495B are both ideal for graphic overlays, nameplates, appliques and decorative trim.
- Tapes 9690 and 9690B provide excellent bonding to a variety of foams.
- Tapes 9690/9690B are both excellent for thermal and sound damping applications in the electronic and appliance industry.
- Tapes 9495B and 9690B offer exceptional bond strength for attaching LED lenses in cellular phones and pagers.

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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. Address correspondence to: 3M Bonding Systems 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: 1-809-750-3000. In Mexico, phone: 5-728-2180.

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