



Adhesive Transfer Tapes with Adhesive 300MP

9692 • 9695 • 964

Technical Data

September, 2002

Product Description: 3M™ Adhesive Transfer Tapes 9692, 9695 and 964 with 3M™ Adhesive 300MP is a hi-strength acrylic adhesive on a polycoated kraft liner. This adhesive has excellent flowability and is ideally suited for bonding foam, fabrics or other textured surfaces.

Product Construction:	Product	Tape 9692	Tape 9695	Tape 964
Adhesive:		2.0 mil (51 microns) 300MP "Hi-Strength" Acrylic Adhesive	5.0 mil (127 microns) 300MP "Hi-Strength" Acrylic Adhesive	13.0 mil (325 microns) 300MP "Hi-Strength" Acrylic Adhesive
Liner:		6.2 mil (157 microns) 83# Polycoated Kraft	6.2 mil (157 microns) 83# Polycoated Kraft	6.2 mil (157 microns) 83# Polycoated Kraft

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.

ASTM D-3330 (modified) 90 degree peel, 12 in./min. (305mm/min.) 2 mil (0.051 mm) aluminum foil.

	Product	20 Minute Room Temperature Dwell	
		Oz./ln.	N/100 mm
Stainless Steel	9692	31	34
	9695	48	52
	964	125	137

Surface	Product	3 Days at Room Temperature		3 Days at 158°F (70°C)	
		Oz./ln.	N/100 mm	Oz./ln.	N/100 mm
Stainless Steel	9692	46	50	89	97
	9695	113	124	127	139
	964	243	266	238	261
Aluminum	9692	55	60	90	98
	9695	83	91	100	109
	964	230	252	272	298
Polycarbonate	9692	48	52	27	30
	9695	72	79	33	36
	964	153	168	65	71
Polypropylene	9692	29	32	29	32
	9695	46	50	39	43
	964	45	49	50	55

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Typical Physical Properties and Performance Characteristics (continued)

The properties defined are based on the attachment of impervious materials (such as aluminum) to an aluminum test surface.

Bond Build-up: The bond strength of 3M™ Adhesive 300MP increases as a function of time and temperature and has very high initial adhesion.

Humidity Resistance: High humidity has minimal effect on adhesive performance. Bond strengths are generally higher after exposure for 7 days at 90°F (32°C) and 90% relative humidity.

Water Resistance: Immersion in water has no appreciable effect on bond strength. After 100 hours at room temperature, the bond actually shows an increase in strength.

Temperature Cycling Resistance: Bond strength generally increases after cycling four times through:

4 hours at 158°F (70°C)

4 hours at -20°F (-29°C)

16 hours at 73°F (22°C)

Chemical Resistance: When properly applied, nameplate and decorative trim parts attached with adhesive 300MP will hold securely after exposure to numerous chemicals including oil, mild acids and alkalis.

Heat Resistance: Adhesive 300MP is usable for short periods (minutes, hours) at temperatures up to 250°F (121°C) and for intermittent longer periods of time (days, weeks) up to 150°F (66°C).

Available Sizes:

Minimum Width:	1/2"	
Maximum Width:	54"	
Roll Lengths:	Width 1/2" to 63/64" 1" to 60"	Length 180 yds 360 yds
Width Tolerance:	± 1/32"	
Core Size:	3"	

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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. Consult manufacturer's Material Safety Data Sheet for proper handling and storage instructions.

Bond strength also can be improved by applying firm pressure and moderate heat, from 100°F (38°C) to 130°F (54°C), which causes the adhesive to develop intimate contact with the bonding surface.

General Information:

- 3M™ Adhesive 300MP is very smooth and is suitable for bonding to most surfaces, including low surface energy plastics.
- 83# polycoated kraft liner improves lay-flat processing of plastic graphic overlays and foam lubricated parts and allows die-cutting of end tabs and multiple parts on a common carrier.

Application Ideas

- Fabricated foam parts to contoured surfaces.
- Plastic nameplates or graphic overlays for use on low surface energy (LSE) plastics.
- Multiple die-cut parts on a common sheet for ease of application.
- Fabricated parts with end tabs for easy liner removal.
- Graphic or fabricated parts to surfaces such as wood, fabric, plastic, rubber and textured materials.

Shelf Life Product retains its performance and properties for one year from date of manufacture if properly stored at room temperature conditions of 72°F (22°C) and 50% relative humidity. Storage in plastic bag is recommended.

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For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-223-7427 or visit www.3M.com/converter. 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.

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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ISO 9002

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

3M

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