3M

Adhesive Transfer Tape with 3M Adhesive 400

463 • 465 • 9457 • 9665

May, 2003

Product Description

3MTM Adhesive Transfer Tapes 463, 465, 9457 and 9665 with 3MTM Adhesive 400 are ideal for bonding together a wide variety of similar and dissimilar materials such as metals, glass, wood, papers, paints, and many plastics.

Construction

Products	3M Tape 463	3M Tape 465	3M Tape 9457	3M Tape 9665
Adhesive Type:	400*	400*	400*	400*
Adhesive Carrier:	None	None	None	None
Release Liner:	60# Unbleached Densified Kraft	60# Unbleached Densified Kraft	55# Densifed Kraft	58# Polycoated Kraft
Approximate Thickness: Release Liner	0.004 in. (0.10 mm)	0.004 in. (0.10 mm)	0.0032 in. (0.08 mm)	0.065 in. (0.165 mm)
Tape only	0.002 in. (0.05 mm)	0.002 in. (0.05 mm)	0.001 in. (0.025 mm)	0.002 in. (0.05 mm)
Tape Color:	Clear	Clear	Clear	Clear

^{*3}MTM Adhesive 400 is a medium-firm acrylic pressure-sensitive adhesive system with an excellent balance of high initial adhesion (quick stick) and good shear holding power.

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.

Adhesion to Steel: (ASTM D-3330)	25 oz./in. width (27 N/100 mm)			
Relative High Temperature Operating Ranges: Short Term (minutes, hours)	250°F (121°C)	250°F (121°C)	250°F (121°C)	250°F (121°C)
Long Term (Days, Weeks)	180°F (82°C)	180°F (82°C)	180°F (82°C)	180°F (82°C)
Relative Solvent Resistance:	Good	Good	Good	Good
U.V. Resistance:	Excellent	Excellent	Excellent	Excellent

Available Sizes

60 yds. (54.9 m)	60 yds. (54.9 m)	60 yds. (54.9 m)	60 yds. (54.9 m)
120 yds. (110 m)	60 yds. (54.9 m)	60 yds. (54.9 m)	60 yds. (54.9 m)
120 yds. (110 m)	60 yds. (54.9 m)	180 yds. (165 m)	60 yds. (54.9 m)
600 yds. (549 m)	360 yds. (329 m)	360 yds. (329 m)	360 yds. (329 m)
360 yds. (329 m)	360 yds. (329 m)	360 yds. (329 m)	360 yds. (329 m)
4/0 in (2.40 mm)	4/0 :- (2.40)	4/0 in /40 7 mm)	4/0 in /0.40 mm)
1/8 in. (3.18 mm)	1/8 in. (3.18 mm)	1/2 in. (12.7 mm)	1/8 in. (3.18 mm)
48 in. (1219 mm)	48 in. (1219 mm)	54 in. (1372 mm)	48 in. (1219 mm)
± 1/32 in. (0.8 mm)	± 1/32 in. (0.8 mm)	± 1/32 in. (0.8 mm)	± 1/32 in. (0.8 mm)
3.0 in. (76.2 mm)	3.0 in. (76.2 mm)	3.0 in. (76.2 mm)	3.0 in. (76.2 mm)
	120 yds. (110 m) 120 yds. (110 m) 600 yds. (549 m) 360 yds. (329 m) 1/8 in. (3.18 mm) 48 in. (1219 mm) ± 1/32 in. (0.8 mm)	120 yds. (110 m) 60 yds. (54.9 m) 120 yds. (110 m) 60 yds. (54.9 m) 600 yds. (549 m) 360 yds. (329 m) 360 yds. (329 m) 360 yds. (329 m) 1/8 in. (3.18 mm) 1/8 in. (3.18 mm) 48 in. (1219 mm) 48 in. (1219 mm) ± 1/32 in. (0.8 mm) ± 1/32 in. (0.8 mm)	120 yds. (110 m) 60 yds. (54.9 m) 60 yds. (54.9 m) 120 yds. (110 m) 60 yds. (54.9 m) 180 yds. (165 m) 600 yds. (549 m) 360 yds. (329 m) 360 yds. (329 m) 360 yds. (329 m) 360 yds. (329 m) 360 yds. (329 m) 1/8 in. (3.18 mm) 1/8 in. (3.18 mm) 1/2 in. (12.7 mm) 48 in. (1219 mm) 48 in. (1219 mm) 54 in. (1372 mm) ± 1/32 in. (0.8 mm) ± 1/32 in. (0.8 mm)

For any other than standard widths or lengths contact your 3M Rep.

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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.
 Some typical surface cleaning solvents are isopropyl alcohol or heptane.*
 *Be sure to follow manufacturer's safety precautions and directions for use when using solvents.
- 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.

Features

- Tapes meet the requirements of U.S. Government specification MIL-P-19834B, Type I.
- 3MTM Adhesive Transfer Tape 463 is designed for use with 3M automatic dispensing equipment.
- 3MTM Adhesive Transfer Tape 465 is designed for use with easy liner release for manual or hand application.
- 3MTM Adhesive Transfer Tape 9457 is designed for use with sub-surface graphics printing on polyester films and custom tamper-indicating labels.
- 3MTM Adhesive Transfer Tape 9665 is the same as 3M tape 465 but has a thicker liner for moisture stability with kiss-cutting applications.

Application Ideas

- High-speed flying splices on most grades of paper.
- Splicing of foils, films, fabrics.
- Laminating adhesive for foams, photos.
- Attaching metal or plastic nameplates.
- Mounting promotional items, posters.
- · Core starting.

Storage

Store under normal conditions of 70°F (21°C) and 50% relative humidty.

Shelf Life

To obtain best performance, use product within two years from date of manufacture.

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/adhesives. Address correspondence to: 3M Industrial Adhesives and Tapes Division, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55144-1000. Our fax number is 651-778-4244. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

Product Use

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

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