

November, 2009

3M™ Double Coated Paper Tape 401M

Product Description

3M™ Double Coated Paper Tape 401M utilizes a natural rubber adhesive system that offers good to excellent adhesion to many types of surfaces.



3M™ Double Coated Paper Tape 401M

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

| Property | Values | |
|------------------------------------|--|-------|
| Color | Off-white | |
| Total Tape Thickness without liner | 0.23 mm | 9 mil |
| Adhesive Type | Natural Rubber | |
| Adhesive Family | 860 (3M™ Adhesive 860 is a soft rubber-resin pressure-sensitive adhesive system and features high initial adhesion and good holding power to a wide variety of materials.) | |
| Adhesive Carrier | Treated Paper | |
| Liner | Paper | |
| Liner Thickness | 0.075 mm | 3 mil |
| Liner Color | Green Plaid | |

Typical Performance Characteristics

| Property | Values | | Method | Dwell/Cure Time | Substrate |
|-------------------------|---|----------|------------|--------------------------|-----------|
| 90° Peel Adhesion | 7.1 N/cm | 65 oz/in | ASTM D3330 | 72 hr @ Room Temperature | Steel |
| Solvent Resistance | Medium | | | | |
| UV Resistance | Good | | | | |
| Environmental Advantage | This product uses a solvent free manufacturing process. | | | | |

| Relative High Temperature Operating Ranges | | Test Condition |
|--|--------|-----------------------------|
| 82 °C | 180 °F | Short Term (minutes, hours) |
| 65 °C | 150 °F | Long Term (days, weeks) |

Property: Relative High Temperature Operating Ranges

3M™ Double Coated Paper Tape 401M

Available Sizes

Please contact your 3M sales representative or contact 3M customer service at 1-800-362-3550 for details on available sizes.

Handling/Application Information

Application Ideas

- Splicing and core starting of papers, foils, films, fabrics etc.
- Mounting rubber or photopolymer printing plates to print cylinders.
- Attaching of golf club grips.
- Temporary holding while parts are being finished in the milling process.

Application Techniques

Bond strength is dependent upon the amount of adhesive-to-surface contact. Firm application pressure helps ensure better adhesive contact and improve bond strength. To obtain optimum adhesion, the bonding surfaces must be clean, dry, and uniform. Some typical surface cleaning solvents are isopropyl alcohol or heptane.* 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.

*Note: When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.

Application Equipment

For additional dispenser information, contact your local 3M sales representative, or the toll free 3M sales assistance number at 1-800-362-3550.

Storage and Shelf Life

Store in original cartons at 70°F (21°C) and 50% relative humidity.

If stored under proper conditions, product retains its performance and properties for 18 months from date of manufacture.

Trademarks

3M is a trademark of 3M Company.

References

| Property | Values |
|-------------------------|---|
| 3m.com Product Page | https://www.3m.com/3M/en_US/company-us/all-3m-products/~/-/3M-Double-Coated-Paper-Tape-401M?N=5002385+3293241369&rt=rud |
| Safety Data Sheet (SDS) | https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=401M |

Family Group

| | 401M | 410M |
|--|------|------|
| Relative High Temperature Operating Ranges (°C) Test Condition: Short Term (minutes, hours) | 82 | 93 |

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3M™ Double Coated Paper Tape 401M

Family Group (continued)

| | 401M | 410M |
|--|--|--|
| Relative High Temperature Operating Ranges (°C) Test Condition: Long Term (days, weeks) | 65 | 65 |
| Color | Off-white | Off-white |
| Total Tape Thickness without liner (mm) | 0.23 | 0.15 |
| Adhesive Type | Natural Rubber | Natural Rubber |
| Adhesive Family | 860 (3M™ Adhesive 860 is a soft rubber-resin pressure-sensitive adhesive system and features high initial adhesion and good holding power to a wide variety of materials.) | 860 (3M™ Adhesive 860 is a soft rubber-resin pressure-sensitive adhesive system and features high initial adhesion and good holding power to a wide variety of materials.) |
| Adhesive Carrier | Treated Paper | Treated Paper |
| Liner | Paper | Paper |
| Liner Thickness (mm) | 0.075 | 0.075 |
| Liner Color | Green Plaid | Green Plaid |

ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

Recognition/Certification

MSDS: 3M has not prepared MSDSs for these products which are 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, these products should not present a health and safety hazard. However, use or processing of the products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards.

TSCA: These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

Information

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