

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		Attribute Modifier
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 Color	Green Plaid		Primary
Liner Thickness	0.075 mm	3 mil	

Typical Performance Characteristics

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

Property	Values		Method	Dwell/Time	Dwell Units	Temp C	Temp F	Environmental Condition	Substrate	Backing	Notes
Solvent Resistance	Medium										
UV Resistance	Good										
90° Peel Adhesion	65 oz/in	7.1 N/cm	ASTM D3330	72	hr	22C	72F	52%RH	Stainless Steel	2 mil PET	12 in/min (300 mm/min)

Table continued on next page

Typical Performance Characteristics (continued)

Property	Values	Method	Dwell Time	Dwell Time Units	Temp C	Temp F	Environmental Conditions	Substrate	Backing	Notes
Environmental Resistance	This product uses a solvent free manufacturing process.									

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.

3M™ Double Coated Paper Tape 401M

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
Relative High Temperature Operating Ranges (°C) Test Condition: Long Term (days, weeks)	65	65
Liner Color Attribute Modifier: Primary	Green Plaid	Green Plaid
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

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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