



ASK A 3M EXPERT

August, 2000

3M™ Scotch® ATG Tape 976

Product Description

0.002 in. (0.05 mm) thick high-tack adhesive transfer tape

Tape is reverse wound on 1-inch diameter cores for use in Scotch ATG dispensers.



TM

3M

General Information

• ATG tapes are a reverse wound version of standard 3M Adhesive Transfer and Double Coated tapes for use in the Scotch® ATG hand-held dispensers. Comparable 3M tape is 3M ATT Tape 927

Note: The user should carefully evaluate the product under actual use conditions to determine whether it is fit for a particular purpose and suitable for the user’s method of application.

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	Clear	
Total Tape Thickness without liner	0.05 mm	2 mil
Adhesive	*300	
Release Liner	Tan Paper *DK with Red Plaid Leader	
Liner Thickness	0.10 mm	4 mil

*Note

*DK = densified kraft

Adhesive System 300 is a soft acrylic pressure-sensitive adhesive system. It features very high initial adhesion and good shear holding power to a wide variety of materials including most plastics.

Typical Performance Characteristics

Relative High Temperature Operating Ranges		Test Condition
121 °C	250 °F	Short Term (minutes, hour)
82 °C	180 °F	Long Term (day, weeks)

Property: Relative High Temperature Operating Ranges

Property	Values			Test Method	Test Name	Dwell/ Cure Time	Dwell/ Cure Units	Temp C	Temp F	Environmental Condition	Substrate	Backing	Notes
Solvent Resistance	Medium												

Table continued on next page

Typical Performance Characteristics (continued)

Property	Values		Method	Test Name	Dwell Time	Dwell Time Units	Temp C	Temp F	Environmental Conditions	Substrate	Backing	Notes
UV Resistance	Not recommended for direct exposure to sunlight or other sources of U.V. light.											
90° Peel Adhesion Stainless Steel	60 oz/in	6.6 N/cm	ASTM D3330	90° Peel Adhesion	72	hr	23C	72F	50%RH	Stainless Steel	2 mil PET	12 in/min (300 mm/min)

Available Sizes

Property	Values		Test Name
Note	Subject to Minimum Order Requirements		
Standard Roll Length	32.9, 54.9 m	36, 60 yd	
Available Width	6.35, 12.7, and 19.1 mm	1/4, 1/2, and 3/4 in	
Normal Slitting Tolerance	± 0.8 mm	± 1/32 in	
Core Size	25.4 mm	1.0 in	ID

Handling/Application Information

Application Ideas

Tape 976 is ideal for bonding materials with glossy coatings where an aggressive adhesive with high initial adhesion is desired. Some application ideas are:

- Folders and boxes
- Attach fabric swatches in sample books
- Assemble point-of-purchase displays

Handling/Application Information (continued)

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. Typical surface cleaning solvents are isopropyl alcohol and water (rubbing alcohol) or heptane. Note: Be sure to follow the manufacturer's 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.

Storage and Shelf Life

24 months from date of manufacture when stored in original cartons at 70°F (21°C) and 50% relative humidity.

References

Property	Values	Method
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/~/-/Scotch-ATG-Adhesive-Transfer-Tape-976/?N=5002385+3293241819&rt=rud mil	ASTM D3652
Safety Data Sheet (SDS)	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=976 in	ASTM D3652

ISO Statement

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

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/bonding. 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 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

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

