

# Technical Data Sheet

## 3M™ Scotch® Transparent Film Tape 681

### Product Description

Scotch® Tape 681 is an excellent high tack, transparent film tape used for various packaging applications such as temporary holding, combining, light-duty carton sealing, bag sealing, and attaching.

### Product Features

- Complies with US FDA 21 CFR 175.105 for indirect food contact
- Moisture and chemical resistant.
- Long aging stability.
- Formulated for easy unwind.
- Can be used in applications where the presence of moisture or chemicals would cause other films to fail.
- Resists turning brittle with age.
- Fade resistant for carbonless images.
- Immediate adhesion to variety of substrates.

### 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	Additional Information
Backing	3M™ Paklon™ film	

Adhesive Type	Pressure sensitive rubber resin
Color	Transparent

Backing Thickness (mm)	0.038 mm	View ^
Test Method: ASTM D3652		
Total Tape Thickness (mil)	2.4 mil	View ^
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.061 mm	View ^

Test Method: ASTM D3652

Backing Thickness	1.5 mil	View ^
Test Method: ASTM D3652		

Typical Performance Characteristics

Property	Values	Additional Information
180° Peel Adhesion	4.4 N/cm	View ^
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	40 oz/in	View ^
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
Longitudinal Tensile Strength	43.8 N/cm	View ^
Test Method: ASTM D3759		
Longitudinal Tensile Strength	25 lb/in	View ^
Test Method: ASTM D3759		
Elongation at Break (%)	35 %	View ^
Test Method: ASTM D3759		

Available Sizes

Property	Values	Additional Information
Standard Roll Length	66 m	
Standard Roll Length	72 yd	
Standard Width	9.5, 12.7, 19, 25.4, 38.1, 50.8, 76.2, 101.6 mm	
Standard Width	3/8, 1/2, 3/4, 1, 1.5, 2, 3, 4 in	

Core Size (ID)	76.2 mm
Core Size (ID)	3 in
Available Sizes	Custom widths and lengths available on request, subject to minimum order requirements.

## Storage and Shelf Life

Storage of Scotch® Tape 681 at 70°F (21°C) and 40-50% relative humidity is recommended. To obtain best performance, use this product within 18 months from date of manufacture.

## Industry Specifications

CID A-A-1684

## Bottom Matter

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## Handling/Application Information

### Application Techniques

An extensive line of manual, semi-automatic and automatic equipment is available to facilitate application of Scotch® Tape 681.

## References

Property	Values
3m.com Product Page	<a href="https://www.3m.com/3M/en_US/p/d/b40067737/">https://www.3m.com/3M/en_US/p/d/b40067737/</a>
Safety Data Sheet SDS	<a href="https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=681">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=681</a>

## Family Group

Link Tags:

- 681

Products	Adhesive Type	Color	Total Tape Thickness (mm)
681	Pressure sensitive rubber resin	Transparent	0.061 mm

## ISO Statement

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

## Information

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