



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 
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Test Method: ASTM D3759

Longitudinal Tensile Strength	25 lb/in	View 
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Test Method: ASTM D3759

Elongation at Break (%)	35 %	View 
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Test Method: ASTM D3759

Available Sizes

Property	Values	Additional Information
Standard Roll Length	66 m	

Standard Roll Length	72 yd	
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Standard Width	9.5, 12.7, 19, 25.4, 38.1, 50.8, 76.2, 101.6 mm	
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Standard Width	3/8, 1/2, 3/4, 1, 1.5, 2, 3, 4 in	
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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	https://www.3m.com/3M/en_US/p/d/b40067737/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=681

Family Group

Link Tags:

• [681](#)

Products	Backing	Adhesive Type	Color	Backing Thickness (mm)	Total Tape Thickness (mm)
681	3M™ Paklon™ film	Pressure sensitive rubber resin	Transparent	0.038 mm	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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