



# Technical Data Sheet

## 3M™ Membrane Switch Product with Adhesive 200MP 7961MP

### Product Description

**Finite Element Analysis (FEA)** data is available for this product at: [3m.com/FEA](https://www.3m.com/FEA)

3M™ High Performance Acrylic Adhesive 200MP is a popular choice and industry standard, for graphic attachment and general industrial joining applications. It provides outstanding adhesion to metal and high surface energy plastics. This adhesive provides some initial repositionability for placement accuracy when bonding to plastics. It also performs well after exposure to humidity and hot/cold cycles and provides the assurance the switch will perform through difficult environmental conditions and millions of actuations.

### Product Features

- Up to 400°F short-term heat resistance
- Excellent solvent resistance
- Excellent shear strength to resist slippage and edge lifting

3M™ Double Coated Membrane Switch Spacers feature 2.0 or 5.0 mil adhesive layers for industry-standard, high-performance requirements.

### 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 |
|---------------------------------------------------------------------------------------------------|----------------------------------|------------------------|
| Adhesive Type                                                                                     | Acrylic                          |                        |
| Adhesive Carrier                                                                                  | Polyester Film (PET)             |                        |
| Liner                                                                                             | PCK                              |                        |
| Primary Liner Type                                                                                | 58# Polycoated Kraft Paper (PCK) | View                   |
| Notes: Inner liner is primary (stays with die-cut part); Outer liner is secondary (removed first) |                                  |                        |
| Secondary Liner Type                                                                              | 58# Polycoated Kraft Paper (PCK) | View                   |
| Notes: Inner liner is primary (stays with die-cut part); Outer liner is secondary (removed first) |                                  |                        |
| Liner Thickness                                                                                   | 0.11 mm                          |                        |

|                         |         |
|-------------------------|---------|
| Primary Liner Thickness | 0.11 mm |
|-------------------------|---------|

|                           |         |
|---------------------------|---------|
| Secondary Liner Thickness | 0.11 mm |
|---------------------------|---------|

|                    |         |      |   |
|--------------------|---------|------|---|
| Adhesive Thickness | 0.05 mm | View | ^ |
|--------------------|---------|------|---|

Test Name: Backside

Notes: The caliper listed is based on a calculation from manufacturing controlled adhesive coat weight. While past data pages have listed nominal thicknesses of 1 and 2 mils, the coat weight (and theoretical caliper) has not changed.

|                   |         |
|-------------------|---------|
| Carrier Thickness | 0.18 mm |
|-------------------|---------|

|                            |       |      |   |
|----------------------------|-------|------|---|
| Total Tape Thickness (mil) | 2 mil | View | ^ |
|----------------------------|-------|------|---|

Test Method: ASTM D3652

|                           |         |      |   |
|---------------------------|---------|------|---|
| Total Tape Thickness (mm) | 0.05 mm | View | ^ |
|---------------------------|---------|------|---|

Test Method: ASTM D3652

|                    |       |      |   |
|--------------------|-------|------|---|
| Adhesive Thickness | 2 mil | View | ^ |
|--------------------|-------|------|---|

Test Name: Backside

Notes: Backside adhesive is on the exterior of the roll, exposed when liner is removed.

|                    |         |      |   |
|--------------------|---------|------|---|
| Adhesive Thickness | 0.05 mm | View | ^ |
|--------------------|---------|------|---|

Test Name: Faceside

Notes: Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.

|                    |       |      |   |
|--------------------|-------|------|---|
| Adhesive Thickness | 2 mil | View | ^ |
|--------------------|-------|------|---|

Test Name: Faceside

Notes: Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.

|                   |       |
|-------------------|-------|
| Carrier Thickness | 7 mil |
|-------------------|-------|

|             |       |
|-------------|-------|
| Liner Print | 200MP |
|-------------|-------|

|                 |         |
|-----------------|---------|
| Liner Thickness | 4.2 mil |
|-----------------|---------|

|                         |         |
|-------------------------|---------|
| Primary Liner Thickness | 4.2 mil |
|-------------------------|---------|

|                           |         |
|---------------------------|---------|
| Secondary Liner Thickness | 4.2 mil |
|---------------------------|---------|

Typical Performance Characteristics

| Property                           | Values    | Additional Information                                                                     |
|------------------------------------|-----------|--------------------------------------------------------------------------------------------|
| 90° Peel Adhesion                  | 3.3 N/cm  | View    |
| Test Method: ASTM D3330            |           |                                                                                            |
| Test Name: 90° Peel Adhesion       |           |                                                                                            |
| Temp C: 23C                        |           |                                                                                            |
| Temp F: 72F                        |           |                                                                                            |
| Substrate: Stainless Steel         |           |                                                                                            |
| Backing: 2 mil PET                 |           |                                                                                            |
| Notes: 12 in/min (300 mm/min)      |           |                                                                                            |
| 90° Peel Adhesion                  | 30 oz/in  | View  |
| Test Method: ASTM D3330            |           |                                                                                            |
| Test Name: 90° Peel Adhesion       |           |                                                                                            |
| Temp C: 23C                        |           |                                                                                            |
| Temp F: 72F                        |           |                                                                                            |
| Environmental Condition: 50%RH     |           |                                                                                            |
| Substrate: Stainless Steel         |           |                                                                                            |
| Backing: 2 mil PET                 |           |                                                                                            |
| 90° Peel Adhesion                  | 14.8 N/cm | View  |
| Test Method: ASTM D3330 (modified) |           |                                                                                            |
| Test Name: 90° Peel Adhesion       |           |                                                                                            |
| Dwell/Cure Time: 72.0              |           |                                                                                            |
| Dwell Time Units: hr               |           |                                                                                            |
| Temp C: 70C                        |           |                                                                                            |
| Temp F: 158F                       |           |                                                                                            |
| Environmental Condition: 50%RH     |           |                                                                                            |
| Substrate: Stainless Steel         |           |                                                                                            |
| Backing: PET Film                  |           |                                                                                            |
| Notes: 12 in/min (300 mm/min)      |           |                                                                                            |
| 90° Peel Adhesion                  | 135 oz/in | View  |
| Test Method: ASTM D3330 (modified) |           |                                                                                            |
| Test Name: 90° Peel Adhesion       |           |                                                                                            |
| Dwell/Cure Time: 72.0              |           |                                                                                            |
| Dwell Time Units: hr               |           |                                                                                            |
| Temp C: 70C                        |           |                                                                                            |
| Temp F: 158F                       |           |                                                                                            |
| Environmental Condition: 50%RH     |           |                                                                                            |
| Substrate: Stainless Steel         |           |                                                                                            |
| Backing: PET Film                  |           |                                                                                            |
| Notes: 12 in/min (300 mm/min)      |           |                                                                                            |
| 90° Peel Adhesion                  | 3.3 N/cm  | View  |
| Test Method: ASTM D3330 (modified) |           |                                                                                            |
| Test Name: 90° Peel Adhesion       |           |                                                                                            |
| Substrate: Aluminum                |           |                                                                                            |
| Backing: PET Film                  |           |                                                                                            |
| 90° Peel Adhesion                  | 30 oz/in  |                                                                                            |



View

^

|                                |
|--------------------------------|
| Test Method: ASTM D3330        |
| Test Name: 90° Peel Adhesion   |
| Temp C: 23C                    |
| Temp F: 72F                    |
| Environmental Condition: 50%RH |
| Substrate: Aluminum            |
| Backing: 2 mil PET             |
| Notes: 12 in/min (300 mm/min)  |

90° Peel Adhesion Aluminum

7.7 N/cm

View 

Test Method: ASTM D3330

Test Name: 90° Peel Adhesion

Dwell/Cure Time: 72.0

Dwell Time Units: hr

Temp C: 23C

Temp F: 72F

Environmental Condition: 50%RH

Substrate: Aluminum

Backing: 2 mil PET

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion Aluminum

70 oz/in

View 

Test Method: ASTM D3330

Test Name: 90° Peel Adhesion

Dwell/Cure Time: 72.0

Dwell Time Units: hr

Temp C: 23C

Temp F: 72F

Environmental Condition: 50%RH

Substrate: Aluminum

Backing: 2 mil PET

Notes: 12 in/min (300 mm/min)

90° Peel Adhesion

14.7 N/cm

View 

Test Method: ASTM D3330 (modified)

Test Name: 90° Peel Adhesion

Dwell/Cure Time: 72.0

Dwell Time Units: hr

Temp C: 70C

Temp F: 158F

Environmental Condition: 50%RH

Substrate: Aluminum

Backing: PET Film

90° Peel Adhesion

134 oz/in

View 

Test Method: ASTM D3330 (modified)

Test Name: 90° Peel Adhesion

Dwell/Cure Time: 72.0

Dwell Time Units: hr

Temp C: 70C

Temp F: 158F

Environmental Condition: 50%RH

Substrate: Aluminum

Backing: PET Film

|                                    |          |                                                                                            |
|------------------------------------|----------|--------------------------------------------------------------------------------------------|
| 90° Peel Adhesion                  | 3.8 N/cm | View  |
| Test Method: ASTM D3330 (modified) |          |                                                                                            |

Test Name: 90° Peel Adhesion  
Substrate: PET  
Backing: PET Film

Notes: 12 in/min (300 mm/min)

|                                                                                                                                                                                                                                                       |           |      |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|---|
| 90° Peel Adhesion                                                                                                                                                                                                                                     | 35 oz/in  | View | ^ |
| <div>Test Method: ASTM D3330 (modified)</div> <div>Test Name: 90° Peel Adhesion<br/>Substrate: PET<br/>Backing: PET Film</div> <div>Notes: 12 in/min (300 mm/min)</div>                                                                               |           |      |   |
| 90° Peel Adhesion                                                                                                                                                                                                                                     | 6.7 N/cm  | View | ^ |
| <div>Test Method: ASTM D3330 (modified)</div> <div>Test Name: 90° Peel Adhesion<br/>Dwell/Cure Time: 72.0<br/>Dwell Time Units: hr<br/>Temp C: 23C<br/>Temp F: 72F<br/>Environmental Condition: 50%RH<br/>Substrate: PET<br/>Backing: PET Film</div>  |           |      |   |
| 90° Peel Adhesion                                                                                                                                                                                                                                     | 61 oz/in  | View | ^ |
| <div>Test Method: ASTM D3330 (modified)</div> <div>Test Name: 90° Peel Adhesion<br/>Dwell/Cure Time: 72.0<br/>Dwell Time Units: hr<br/>Temp C: 23C<br/>Temp F: 72F<br/>Environmental Condition: 50%RH<br/>Substrate: PET<br/>Backing: PET Film</div>  |           |      |   |
| 90° Peel Adhesion                                                                                                                                                                                                                                     | 13.6 N/cm | View | ^ |
| <div>Test Method: ASTM D3330 (modified)</div> <div>Test Name: 90° Peel Adhesion<br/>Dwell/Cure Time: 72.0<br/>Dwell Time Units: hr<br/>Temp C: 70C<br/>Temp F: 158F<br/>Environmental Condition: 50%RH<br/>Substrate: PET<br/>Backing: PET Film</div> |           |      |   |
| 90° Peel Adhesion                                                                                                                                                                                                                                     | 124 oz/in | View | ^ |
| <div>Test Method: ASTM D3330 (modified)</div> <div>Test Name: 90° Peel Adhesion<br/>Dwell/Cure Time: 72.0<br/>Dwell Time Units: hr<br/>Temp C: 70C<br/>Temp F: 158F<br/>Environmental Condition: 50%RH<br/>Substrate: PET<br/>Backing: PET Film</div> |           |      |   |
| 90° Peel Adhesion                                                                                                                                                                                                                                     | 4 N/cm    | View | ^ |
| <div>Test Method: ASTM D3330 (modified)</div>                                                                                                                                                                                                         |           |      |   |

Substrate: Polycarbonate (PC)  
Backing: PET Film

Notes: 12 in/min (300 mm/min)

|                                                                                                                                                                                          |            |                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------|
| 90° Peel Adhesion                                                                                                                                                                        | 37 oz/in   | View    |
| <p>Test Method: ASTM D3330 (modified)</p> <p>Test Name: 90° Peel Adhesion<br/>Substrate: Polycarbonate (PC)<br/>Backing: PET Film</p> <p>Notes: 12 in/min (300 mm/min)</p>               |            |                                                                                            |
| 90° Peel Adhesion                                                                                                                                                                        | 7.3 N/cm   | View    |
| <p>Test Method: ASTM D3330 (modified)</p> <p>Dwell/Cure Time: 72.0<br/>Dwell Time Units: hr<br/>Temp C: 70C<br/>Temp F: 158F<br/>Substrate: Polycarbonate (PC)<br/>Backing: PET Film</p> |            |                                                                                            |
| 90° Peel Adhesion                                                                                                                                                                        | 67 oz/in   | View  |
| <p>Test Method: ASTM D3330 (modified)</p> <p>Dwell/Cure Time: 72.0<br/>Dwell Time Units: hr<br/>Temp C: 70C<br/>Temp F: 158F<br/>Substrate: Polycarbonate (PC)<br/>Backing: PET Film</p> |            |                                                                                            |
| Tensile Strength                                                                                                                                                                         | 7945 lb/in | View  |
| <p>Test Method: ASTM D2370</p> <p>Substrate: Stainless Steel<br/>Backing: PET Film</p>                                                                                                   |            |                                                                                            |
| Overlap Shear Strength                                                                                                                                                                   | 0.52 MPa   | View  |
| <p>Test Method: ASTM D1001</p> <p>Substrate: Stainless Steel<br/>Backing: PET Film</p>                                                                                                   |            |                                                                                            |
| Overlap Shear Strength                                                                                                                                                                   | 76 lb/in²  | View  |
| <p>Test Method: ASTM D1001</p> <p>Substrate: Stainless Steel<br/>Backing: PET Film</p>                                                                                                   |            |                                                                                            |
| Overlap Shear Strength                                                                                                                                                                   | 0.46 MPa   | View  |
| <p>Test Method: ASTM D1001</p> <p>Substrate: Polycarbonate (PC)<br/>Backing: PET Film</p>                                                                                                |            |                                                                                            |
| Overlap Shear Strength                                                                                                                                                                   | 66 lb/in²  | View  |



Test Method: ASTM D1001

Substrate: Polycarbonate (PC)  
Backing: PET Film

|                                                                                                                                                                                                                                                                                                 |             |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|
| Short Term Temperature Resistance                                                                                                                                                                                                                                                               | 300 °F      |        |
|                                                                                                                                                                                                                                                                                                 |             |        |
| Short Term Temperature Resistance                                                                                                                                                                                                                                                               | 149 °C      |        |
|                                                                                                                                                                                                                                                                                                 |             |        |
| Long Term Temperature Resistance                                                                                                                                                                                                                                                                | 93 °C       |        |
|                                                                                                                                                                                                                                                                                                 |             |        |
| Long Term Temperature Resistance                                                                                                                                                                                                                                                                | 200 °F      |        |
|                                                                                                                                                                                                                                                                                                 |             |        |
| Static Shear                                                                                                                                                                                                                                                                                    | 10,000+ min | View ^ |
| <div>Test Method: ASTM D3654</div> <div>Substrate: Stainless Steel<br/>Backing: PET Film</div> <div>Notes: 0.5 in² sample size</div>                                                                                                                                                            |             |        |
| Static Shear                                                                                                                                                                                                                                                                                    | 10,000+ min | View ^ |
| <div>Test Method: ASTM D3654</div> <div>Substrate: Stainless Steel<br/>Backing: PET Film</div> <div>Notes: 0.5 in² sample size</div>                                                                                                                                                            |             |        |
| 90° Peel Adhesion Stainless Steel                                                                                                                                                                                                                                                               | 101 oz/in   | View ^ |
| <div>Test Method: ASTM D3330</div> <div>Test Name: 90° Peel Adhesion<br/>Dwell/Cure Time: 72.0<br/>Dwell Time Units: hr<br/>Temp C: 23C<br/>Temp F: 72F<br/>Environmental Condition: 50%RH<br/>Substrate: Stainless Steel<br/>Backing: 2 mil PET</div> <div>Notes: 12 in/min (300 mm/min)</div> |             |        |
| 90° Peel Adhesion Stainless Steel                                                                                                                                                                                                                                                               | 11.1 N/cm   | View ^ |
| Notes: 12 in/min (300 mm/min) ASTM D3330 72 hour dwell on Stainless Steel at 23°C (72°F) and 50% RH Backing: 2 mil Polyester                                                                                                                                                                    |             |        |
| 90° Peel Adhesion Polycarbonate (PC)                                                                                                                                                                                                                                                            | 6 N/cm      | View ^ |
| <div>Test Method: ASTM D3330</div> <div>Test Name: 90° Peel Adhesion<br/>Dwell/Cure Time: 72.0<br/>Dwell Time Units: hr<br/>Temp C: 23C<br/>Temp F: 72F</div>                                                                                                                                   |             |        |



Environmental Condition: 50%RH  
Substrate: Polycarbonate (PC)  
Backing: 2 mil PET

Notes: 12 in/min (300 mm/min)

|                                      |          |                                                                                          |
|--------------------------------------|----------|------------------------------------------------------------------------------------------|
| 90° Peel Adhesion Polycarbonate (PC) | 55 oz/in | View  |
| Test Method: ASTM D3330              |          |                                                                                          |
| Test Name: 90° Peel Adhesion         |          |                                                                                          |
| Dwell/Cure Time: 72.0                |          |                                                                                          |
| Dwell Time Units: hr                 |          |                                                                                          |
| Temp C: 23C                          |          |                                                                                          |
| Temp F: 72F                          |          |                                                                                          |
| Environmental Condition: 50%RH       |          |                                                                                          |
| Substrate: Polycarbonate (PC)        |          |                                                                                          |
| Backing: 2 mil PET                   |          |                                                                                          |
| Notes: 12 in/min (300 mm/min)        |          |                                                                                          |

### Electrical and Thermal Properties

| Property                         | Values             | Additional Information                                                                     |
|----------------------------------|--------------------|--------------------------------------------------------------------------------------------|
| Insulation Resistance            | 1.6 x 10^13 Ω      | View  |
| Test Method: Mil-I-46058C        |                    |                                                                                            |
| Dissipation Factor               | 0.01               | View  |
| Test Method: ASTM D150           |                    |                                                                                            |
| Dielectric Strength              | 1500 V/mil         | View  |
| Test Method: ASTM D149           |                    |                                                                                            |
| Notes: Short time method (air)   |                    |                                                                                            |
| Volume Resistivity               | 2.2 x 10^15 Ω-cm   | View  |
| Test Method: ASTM D257           |                    |                                                                                            |
| Temp C: 23C                      |                    |                                                                                            |
| Temp F: 73F                      |                    |                                                                                            |
| Surface Resistivity              | >5.6 x 10^16 Ω     | View  |
| Test Method: ASTM D257           |                    |                                                                                            |
| Coefficient of Thermal Expansion | 4.1 x 10^-4 m/m/°C | View  |
| Test Method: ASTM D696           |                    |                                                                                            |

### Typical Environmental Performance

Humidity Resistance – High humidity has a minimal effect on adhesive performance. Bond strength shows no significant reduction after exposure for 7 days at 90°F (32°C) and 90% relative humidity.



UV Resistance – When properly applied, nameplates and decorative trim parts are not adversely affected by outdoor exposure.

Water Resistance – Immersion in water has no appreciable effect on the bond strength. After 100 hours at room temperature, the high bond strength is maintained.

Temperature Cycling Resistance – High bond strength is maintained after cycling four times through:

4 hours at 158°F (70°C)

4 hours at -20°F (-29°C)

4 hours at 73°F (22°C)

Chemical Resistance – When properly applied, nameplate and decorative trim parts will hold securely after exposure to numerous chemicals including oil, mild acids and alkalis.

Bond Build-up: The bond strength of 3M™ High Performance Acrylic Adhesive increases as a function of time and temperature as the adhesive further wets the surface and reaches maximum bond strength after 72 hours at room temperature.

Temperature/Heat Resistance: 3M™ High Performance Acrylic Adhesive on polyester carriers is usable for short periods (minutes, hours) at temperatures up to 300 °F (149°C) and for intermittent longer periods (days, weeks) up to 250°F (121°C).

Lower Temperature Service Limit: -40°F (-40°C).

Storage and Shelf Life

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It is suggested that products are stored at room temperature conditions of 70°F (21°C) and 50% relative humidity.

If stored properly, product retains its performance and properties for 24 months from date of manufacture.

Recognition/Certification

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TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements

MSDS: 3M has not prepared a MSDS for this product which is not subjected 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, this product should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.

UL: These products have been recognized by Underwriters Laboratories, Inc. under UI 746C and UL 969. For more information on the UL Certification, please visit the website at <http://www.3M.com/converter>, select UL Recognized Materials, then select the specific product area.

Note: One of 3M's core values is to respect our social and physical environment. 3M is committed to comply with ever-changing, global, regulatory and consumer environmental, health, and safety (EHS) requirements. As a service to our customers, 3M is providing information on the regulatory status of many 3M products. Further regulation information including that for OSHA, USCPSTI, FDA, California Proposition 65, REACH and RoHS, can be found at [3M.com/regs](http://3M.com/regs).

Bottom Matter

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3M  
Industrial Adhesives and Tapes Division  
3M Center, Building 225-3S-06  
St. Paul, MN 55144-1000  
800-362-3550

Trademarks

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3M is a trademark of 3M Company

Automotive Disclaimer

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Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, including, but not limited to, automotive electric powertrain battery or high voltage applications. This product does not fully adhere to typical automotive design or quality system requirements, such as IATF 16949 or VDA 6.3. This product may not be manufactured in an IATF certified facility and may not meet a Ppk of 1.33 for all properties. The product may not undergo an automotive production part approval process (PPAP). Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer’s automotive application and for conducting incoming inspections before use of the product. Failure to do so may result in injury, death, and/or harm to property. No written or verbal statement, report, data or recommendation by 3M related to automotive use of the product shall have any force or effect unless in an agreement signed by the Technical Director of 3M’s Automotive Division. Customer assumes all responsibility and risk if customer chooses to use this product in an automotive electric powertrain battery or high voltage application, and 3M will not be liable for any loss or damage arising from or related to the 3M product or customer’s use of the product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity or recall costs), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability. In no event shall 3M be liable for any damages in excess of the purchase price paid for the product.

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Handling/Application Information

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Application Examples

- 3M™ Double Coated Membrane Switch Spacers are ideal for circuit separation

References

| Property              | Values                                                                                                        |
|-----------------------|---------------------------------------------------------------------------------------------------------------|
| 3m.com Product Page   | https://www.3m.com/3M/en_US/p/d/b40070403/                                                                    |
| Safety Data Sheet SDS | https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=7961MP |

Family Group

Link Tags:

- 7953MP

• 7945MP

• 7956MP

• 7957MP

• 7959MP

• 7961MP

• 9045MP

• 9056MP

• 9057MP

• 9059MP

• 9061MP

• 7993MP

• 7995MP

• 7997MP

| Products | Adhesive Type | Adhesive Carrier     | Liner | Primary Liner Type    | Secondary Liner Type             | Liner Thickness | Primary Liner Thickness | Secondary Liner Thickness | Adhesive Thickness | Carrier Thickness | Total Tape Thickness (mm) | Short Term Temperature Resistance | Long Term Temperature Resistance |
|----------|---------------|----------------------|-------|-----------------------|----------------------------------|-----------------|-------------------------|---------------------------|--------------------|-------------------|---------------------------|-----------------------------------|----------------------------------|
| 7959MP   | Acrylic       | Polyester Film (PET) | PCK   | 58# Kraft Paper (PCK) | 58# Polycoated Kraft Paper (PCK) | 0.11 mm         | 0.11 mm                 | 0.11 mm                   | 0.05 mm            | 0.13 mm           | 0.05 mm                   | 149 °C                            | 200 °F                           |
| 7956MP   | Acrylic       | Polyester Film (PET) | PCK   | 58# Kraft Paper (PCK) | 58# Polycoated Kraft Paper (PCK) | 0.11 mm         | 0.11 mm                 | 0.11 mm                   | 0.05 mm            | 0.05 mm           | 0.05 mm                   | 149 °C                            | 200 °F                           |
| 9045MP   | Acrylic       | Polyester Film (PET) | PCK   | 94# Kraft Paper (PCK) | 94# Polycoated Kraft Paper (PCK) | 0.18 mm         | 0.18 mm                 | 0.18 mm                   | 0.05 mm            | 0.03 mm           | 0.05 mm                   | 149 °C                            | 200 °F                           |
| 9059MP   | Acrylic       | Polyester Film (PET) | PCK   | 94# Kraft Paper (PCK) | 94# Polycoated Kraft Paper (PCK) | 0.18 mm         | 0.18 mm                 | 0.18 mm                   | 0.05 mm            | 0.13 mm           | 0.05 mm                   | 149 °C                            | 200 °F                           |
| 7945MP   | Acrylic       | Polyester Film (PET) | PCK   | 58# Kraft Paper (PCK) | 58# Polycoated Kraft Paper (PCK) | 0.11 mm         | 0.11 mm                 | 0.11 mm                   | 0.05 mm            | 0.03 mm           | 0.05 mm                   | 149 °C                            | 200 °F                           |

|        |         |                   |     |                   |         |         |         |         |         |         |         |         |        |
|--------|---------|-------------------|-----|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 7961MP | Acrylic | Polyester         | PCK | 58#               | 58#     |         |         |         |         |         |         |         |        |
|        |         | Polycoated        |     | Polycoated        |         |         |         |         |         |         |         |         |        |
|        |         | Kraft Paper (PCK) |     | Kraft Paper (PCK) | 0.11 mm | 0.11 mm | 0.11 mm | 0.05 mm | 0.18 mm | 0.05 mm | 149 °C  | 200 °F  |        |
| 7957MP | Acrylic | Polyester         | PCK | 58#               | 58#     |         |         |         |         |         |         |         |        |
|        |         | Polycoated        |     | Polycoated        |         |         |         |         |         |         |         |         |        |
|        |         | Kraft Paper (PCK) |     | Kraft Paper (PCK) | 0.11 mm | 0.11 mm | 0.11 mm | 0.05 mm | 0.08 mm | 0.05 mm | 149 °C  | 200 °F  |        |
| 9057MP | Acrylic | Polyester         | PCK | 94#               | 94#     |         |         |         |         |         |         |         |        |
|        |         | Polycoated        |     | Polycoated        |         |         |         |         |         |         |         |         |        |
|        |         | Kraft Paper (PCK) |     | Kraft Paper (PCK) | 0.18 mm | 0.18 mm | 0.18 mm | 0.05 mm | 0.08 mm | 0.05 mm | 149 °C  | 200 °F  |        |
| 9061MP | Acrylic | Polyester         | PCK | 94#               | 94#     |         |         |         |         |         |         |         |        |
|        |         | Polycoated        |     | Polycoated        |         |         |         |         |         |         |         |         |        |
|        |         | Kraft Paper (PCK) |     | Kraft Paper (PCK) | 0.18 mm | 0.18 mm | 0.18 mm | 0.05 mm | 0.18 mm | 0.05 mm | 149 °C  | 200 °F  |        |
| 9056MP | Acrylic | Polyester         | PCK | 94#               | 94#     |         |         |         |         |         |         |         |        |
|        |         | Polycoated        |     | Polycoated        |         |         |         |         |         |         |         |         |        |
|        |         | Kraft Paper (PCK) |     | Kraft Paper (PCK) | 0.18 mm | 0.18 mm | 0.18 mm | 0.05 mm | 0.05 mm | 0.05 mm | 149 °C  | 200 °F  |        |
| 7995MP | Acrylic | Polyester         | PCK | 94#               | 94#     |         |         |         |         |         |         |         |        |
|        |         | Polycoated        |     | Polycoated        |         |         |         |         |         |         |         |         |        |
|        |         | Kraft Paper (PCK) |     | Kraft Paper (PCK) | N/A     | N/A     | 0.18 mm | N/A     | N/A     | N/A     | 0.08 mm | 0.05 mm | 149 °C |
| 7997MP | Acrylic | Polyester         | PCK | 94#               | 94#     |         |         |         |         |         |         |         |        |
|        |         | Polycoated        |     | Polycoated        |         |         |         |         |         |         |         |         |        |
|        |         | Kraft Paper (PCK) |     | Kraft Paper (PCK) | N/A     | N/A     | 0.18 mm | N/A     | N/A     | N/A     | 0.13 mm | 0.05 mm | 149 °C |
| 7993MP | Acrylic | Polyester         | PCK | 94#               | 94#     |         |         |         |         |         |         |         |        |
|        |         | Polycoated        |     | Polycoated        |         |         |         |         |         |         |         |         |        |
|        |         | Kraft Paper (PCK) |     | Kraft Paper (PCK) | N/A     | N/A     | 0.18 mm | N/A     | N/A     | N/A     | 0.03 mm | 0.05 mm | 149 °C |
| 7953MP | Acrylic | Polyester         | PCK | 58#               | 58#     |         |         |         |         |         |         |         |        |
|        |         | Polycoated        |     | Polycoated        |         |         |         |         |         |         |         |         |        |
|        |         | Kraft Paper (PCK) |     | Kraft Paper (PCK) | 0.11 mm | 0.11 mm | 0.11 mm | 0.04 mm | 0.01 mm | 0.04 mm | 149 °C  | 200 °F  |        |

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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