

Technical Data Sheet

3M™ Double Coated Tissue Tape 9448A

| Product Description | | |
|--|--|---|
| Product Description | | |
| | ond strength on many types of substrate including low st ected by temperature change and good tack even at cold | urface energy plastics on which most acrylic adhesive can lenvironment. Soft acrylic adhesive can penetrate rough |
| 1 Toddet i eatures | | |
| Double Coated Tissue Tape | | |
| Technical Information Note | | |
| The following technical information and data should be of the following te | considered representative or typical only and should not | be used for specification purposes. |
| Typical Physical Properties | | |
| Property | Values | Additional Information |
| Backing | Tissue Paper | |
| | | |
| Adhesive Type | Acrylate | View ^ |
| Test Name: Faceside | | |
| Notes: Faceside adhesive is on the interior of the roll, | exposed when unwound and liner removed. | |
| Adhesive Type | Acrylate | View ^ |
| Test Name: Backside | | |
| Notes: Backside adhesive is on the exterior of the roll, | exposed when liner is removed. | |
| Adhesive Carrier | Translucent Tissue | |
| | | |
| Liner Color | White | View ^ |
| Test Name: Primary | | |
| Color | Clear | View ^ |
| Test Name: Cured | | |



Liner 58# Polycoated Kraft Liner Thickness 0.12 mm View ^ Adhesive Thickness 0.076 mm 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 1 mm View ^ Total Tape Thickness (mil) 5.9 mil Test Method: ASTM D3652 Total Tape Thickness (mm) View ^ 0.15 mm Test Method: ASTM D3652 View ^ Adhesive Thickness 3 mil Test Name: Backside Notes: Backside adhesive is on the exterior of the roll, exposed when liner is removed. Adhesive Thickness View ^ 0.076 mm Test Name: Faceside Notes: Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed. View ^ Adhesive Thickness 3 mil Test Name: Faceside Notes: Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed. Carrier Thickness 1 mil Liner Thickness 4.7 mil Typical Performance Characteristics Additional Information Property Values View ^ 180° Peel Adhesion 13 N/cm



Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F

Environmental Condition: 50%RH

Substrate: Aluminum

180° Peel Adhesion

13.5 N/cm

View ^

Dwell/Cure Time: 20.0
Dwell Time Units: min
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Polycarbonate (PC)

180° Peel Adhesion

13.5 N/cm

View ^

Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F

Environmental Condition: 50%RH Substrate: Acrylic (PMMA)

180° Peel Adhesion

13.5 N/cm

View ^

Test Method: ASTM D3330

Dwell/Cure Time: 20.0

Dwell Time Units: min
Substrate: Stainless Steel

180° Peel Adhesion

13.2 N/cm

View ^

Test Method: ASTM D3330

Dwell/Cure Time: 20.0 Dwell Time Units: min Substrate: ABS

180° Peel Adhesion

13.5 N/cm

View ^

Test Method: ASTM D3330

Dwell/Cure Time: 20.0

Dwell Time Units: min
Substrate: Polycarbonate (PC)

180° Peel Adhesion

10 N/cm

View ^

Test Method: ASTM D3330

Dwell/Cure Time: 20.0 Dwell Time Units: min Substrate: Polypropylene (PP)

180° Peel Adhesion 14 N/cm View ^

Test Method: ASTM D3330

Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F

Environmental Condition: 50%RH Substrate: Polycarbonate (PC)



| 180° Peel Adhesion | 13.5 N/cm | View ^ |
|---|-----------|--------|
| Test Method: ASTM D3330 | | |
| Dwell/Cure Time: 72.0 Dwell Time Units: hr | | |
| Temp C: 23C | | |
| Temp F: 72F Environmental Condition: 50%RH | | |
| Substrate: ABS | | |
| Notes: 12 in/min (300 mm/min) | | |
| 180° Peel Adhesion | 10.5 N/cm | View ^ |
| Test Method: ASTM D3330 | | |
| Dwell/Cure Time: 72.0 Dwell Time Units: hr | | |
| Temp C: 23C | | |
| Temp F: 72F Environmental Condition: 50%RH | | |
| Substrate: Polypropylene (PP) | | |
| Notes: 12 in/min (300 mm/min) | | |
| 180° Peel Adhesion | 17 N/cm | View ^ |
| Test Method: ASTM D3330 | | |
| Dwell/Cure Time: 15.0 | | |
| Dwell Time Units: min Temp C: 23C | | |
| Temp F: 72F | | |
| Environmental Condition: 50%RH Substrate: Stainless Steel | | |
| Backing: Aluminum Foil | | |
| Notes: 12 in/min (300 mm/min) | | |
| 180° Peel Adhesion | 155 oz/in | View ^ |
| Test Method: ASTM D3330 | | |
| Dwell/Cure Time: 15.0 | | |
| Dwell Time Units: min Temp C: 23C | | |
| Temp F: 72F Environmental Condition: 50%RH | | |
| Substrate: Stainless Steel Backing: Aluminum Foil | | |
| Notes: 12 in/min (300 mm/min) | | |
| | | |
| 180° Peel Adhesion | 18.1 N/cm | View ^ |
| Test Method: ASTM D3330 | | |
| Dwell/Cure Time: 15.0 Dwell Time Units: min | | |
| Temp C: 23C | | |
| Temp F: 72F Environmental Condition: 50%RH | | |
| Substrate: Polycarbonate (PC) Backing: Aluminum Foil | | |
| Notes: 12 in/min (300 mm/min) | | |
| 40.00 P I. A. II | | |
| 180° Peel Adhesion | 165 oz/in | View ^ |



Test Method: ASTM D3330

Dwell/Cure Time: 15.0 Dwell Time Units: min Temp C: 23C Temp F: 72F

Environmental Condition: 50%RH Substrate: Polycarbonate (PC) Backing: Aluminum Foil

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

| 180° Peel Adhesion | 15.9 N/cm | View ^ |
|---|-----------|--------|
| Test Method: ASTM D3330 | | |
| Dwell/Cure Time: 15.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: ABS Backing: Aluminum Foil Notes: 12 in/min (300 mm/min) | | |
| 180° Peel Adhesion | 145 oz/in | View ^ |
| Test Method: ASTM D3330 | | |

Dwell/Cure Time: 15.0 Dwell Time Units: min Temp C: 23C

Temp C: 23C

Environmental Condition: 50%RH

Substrate: ABS

Backing: Aluminum Foil

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

| 180° Peel Adhesion | 17 N/cm | View ^ |
|--|-----------|--------|
| Test Method: ASTM D3330 | | |
| Dwell/Cure Time: 15.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: Aluminum Foil Notes: 12 in/min (300 mm/min) | | |
| 180° Peel Adhesion | 155 oz/in | View ^ |

Test Method: ASTM D3330

Dwell/Cure Time: 15.0 Dwell Time Units: min Temp C: 23C Temp F: 72F

Environmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: Aluminum Foil

| 180° Peel Adhesion | 18.6 N/cm | View ^ |
|-------------------------|-----------|--------|
| Test Method: ASTM D3330 | | |
| Dwell/Cure Time: 72.0 | | |
| | | |



Dwell Time Units: hr
Temp C: 23C
Temp F: 72F
Environmental Condition: 50%RH
Substrate: Stainless Steel
Backing: Aluminum Foil

| Notes: 12 in/min (300 mm/min) | | | |
|--|-----------|--------|--|
| 180° Peel Adhesion | 170 oz/in | View ^ | |
| Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: Aluminum Foil Notes: 12 in/min (300 mm/min) | | | |
| 180° Peel Adhesion | 19.7 N/cm | View ^ | |
| Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polycarbonate (PC) Backing: Aluminum Foil Notes: 12 in/min (300 mm/min) | | | |
| 180° Peel Adhesion | 180 oz/in | View ^ | |
| Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polycarbonate (PC) Backing: Aluminum Foil Notes: 12 in/min (300 mm/min) | | | |
| 180° Peel Adhesion | 17 N/cm | View ^ | |
| Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: ABS Backing: Aluminum Foil Notes: 12 in/min (300 mm/min) | | | |
| 180° Peel Adhesion | 155 oz/in | View ^ | |
| Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F | | | |



Environmental Condition: 50%RH

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

Substrate: ABS

Backing: Aluminum Foil

View ^ 180° Peel Adhesion 19.2 N/cm Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: Aluminum Foil Notes: 12 in/min (300 mm/min) View ^ 180° Peel Adhesion 175 oz/in Test Method: ASTM D3330 Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: Aluminum Foil Notes: 12 in/min (300 mm/min) View ^ 180° Peel Adhesion 13.5 N/cm Test Method: ASTM D3330 Test Name: Faceside Dwell/Cure Time: 20.0 Dwell Time Units: min Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Polyester Film Notes: 12 in/min (300 mm/min) View ^ 180° Peel Adhesion 14 N/cm Test Method: ASTM D3330 Test Name: Faceside Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Polyester Film Notes: 12 in/min (300 mm/min) View ^ 180° Peel Adhesion 13.5 N/cm Test Method: ASTM D3330 Test Name: Backside

Temp C: 23C Temp F: 72F

Dwell/Cure Time: 20.0 Dwell Time Units: min



Environmental Condition: 50%RH Substrate: Stainless Steel Backing: 2 mil Polyester Film

| Total Michaels ASTM 203305 Novell Con Time 72 0 Novell Con Time 72 0 Novell Con Linear branch Notes: 12 in/min (\$200 min/min), Backade, Backing 2 mil Polyester film BSC Time Acresses | | | |
|--|---|----------------------|--------|
| Over I True 1720 Over I | 180° Peel Adhesion | 14 N/cm | View ^ |
| Novel Term Frience 1990 1896 Peo Adhesion 10.5 N/cm | Test Method: ASTM D3330 | | |
| 180* Feel Adhesion 12.5 N/cm View ↑ Tors: Method: ASTM D3330 Tors: Method: ASTM D3330 Tors: Method: ASTM D3330 Tors: Method: ASTM D3330 Tors: Method: State Units: 17 Turng G. 230. Terry Br. 276. Terry Method: ASTM D3330 Terry Name: Backside Dwall Crue Timer 220 Dwall Time Units: 17 Terry Method: ASTM D3330 Terry Name: Backside Dwall Crue Timer 220 Dwall Time Units: 17 Terry Data Crue Terry Cone Te | Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Stainless Steel Notes: 12 in/min (300 mm/min), Backside, Backing: 2 | 2 mil Polvester film | |
| Test Method: ASTM D3390 Test Name Bedeide Dowld Court Timer (20 D | | | |
| Test Name: Backside Dwell Fore Nink: P2.0 Dwell Time Nink: Ar Temp C. 2865 Temp F. 787 Temp F. 787 Temp G. 787 Temp G. 787 Temp G. 787 Test Method: ASTM 03330 Test Name: Backside Dwell Counting SOV MRH Institute Temp G. 787 Test Name: Backside Dwell Count Frie: P2.0 Dwell Time Nink: In Test Method: ASTM 03330 Test Name: Backside Dwell Count Frie: P2.0 Dwell Time Nink: In Temp F. 787 Temp F. 787 Temp G. 787 Temp | 180° Peel Adhesion | 13.5 N/cm | View ^ |
| Doell From Christ Press Terms C-23CG Terms From Cross Terms C-23CG Terms From Christian (200 mmr/min) 10.5 N/cm 10. | Test Method: ASTM D3330 | | |
| Test Method: ASTM D3330 Test Name: Backside Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 230 Temp F: 72F Emirronmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: 2 mil Polyester Film Notes: 12 in/min (300 mm/min) Short Term Temperature Resistance 302 °F View ^ Test Condition: Short Term (minutes, hour) Short Term Temperature Resistance 150 °C View ^ Test Condition: Short Term (minutes, hour) Long Term Temp C 70 °C View ^ Test Condition: Long Term (day, weeks) Long Term Temp F 158 °F View ^ Test Condition: Long Term (day, weeks) | Test Name: Backside Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: ABS Backing: 2 mil Polyester Film Notes: 12 in/min (300 mm/min) | | |
| Test Condition: Short Term (minutes, hour) Short Term Temperature Resistance 150 °C View ^ Test Condition: Short Term (minutes, hour) Long Term Temp C 70 °C View ^ Test Condition: Long Term (day, weeks) | 180° Peel Adhesion | 10.5 N/cm | View ^ |
| Test Condition: Short Term (minutes, hour) Short Term Temperature Resistance 150 °C View ^ Test Condition: Short Term (minutes, hour) Long Term Temp C 70 °C View ^ Test Condition: Long Term (day, weeks) Long Term Temp F 158 °F View ^ Test Condition: Long Term (day, weeks) | Test Method: ASTM D3330 Test Name: Backside Dwell/Cure Time: 72.0 Dwell Time Units: hr Temp C: 23C Temp F: 72F Environmental Condition: 50%RH Substrate: Polypropylene (PP) Backing: 2 mil Polyester Film Notes: 12 in/min (300 mm/min) | | |
| Short Term Temperature Resistance 150 °C View ^ Test Condition: Short Term (minutes, hour) Long Term Temp C 70 °C View ^ Test Condition: Long Term (day, weeks) Long Term Temp F 158 °F View ^ Test Condition: Long Term (day, weeks) | Short Term Temperature Resistance | 302 °F | View ^ |
| Test Condition: Short Term (minutes, hour) Long Term Temp C 70 °C View ^ Test Condition: Long Term (day, weeks) Long Term Temp F 158 °F View ^ Test Condition: Long Term (day, weeks) | Test Condition: Short Term (minutes, hour) | | |
| Long Term Temp C 70 °C View ^ Test Condition: Long Term (day, weeks) Long Term Temp F 158 °F View ^ Test Condition: Long Term (day, weeks) | Short Term Temperature Resistance | 150 °C | View ^ |
| Test Condition: Long Term (day, weeks) Long Term Temp F | Test Condition: Short Term (minutes, hour) | | |
| Long Term Temp F 158 °F View ^ Test Condition: Long Term (day, weeks) | Long Term Temp C | 70 °C | View ^ |
| Test Condition: Long Term (day, weeks) | Test Condition: Long Term (day, weeks) | | |
| | Long Term Temp F | 158 °F | View ^ |
| Static Shear >5,000 min View ^ | Test Condition: Long Term (day, weeks) | | |
| | Static Shear | >5,000 min | View ^ |



Test Method: ASTM D3654

Test Condition: 1000 g @ Room Temperature

Notes: 1 in² sample size

| Static Shear | >5000 min | View ^ |
|---|-----------|--------|
| Test Method: ASTM D3654 | | |
| Test Condition: 1000 g @ Room Temperature | | |

Available Sizes

| Property | Values | Additional Information |
|---------------------------|---------------------------------------|------------------------|
| Note | Subject to Minimum Order Requirements | |
| | | |
| Normal Slitting Tolerance | ± 0.8 mm | |
| | | |
| Normal Slitting Tolerance | ± 1/32 in | |
| | | |
| Core Size (ID) | 76.2 mm | |
| | | |
| Core Size (ID) | 3 in | |
| | | |

Electrical and Thermal Properties

| Property | Values | Additional Information |
|-------------------|--------|------------------------|
| Breakdown Voltage | 7500 V | |
| | | |

Typical Environmental Performance

Humidity Resistance: High humidity has minimal effect on adhesive performance. No significant reduction in bond strength is observed 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 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.

Storage and Shelf Life

Shelf life of tape in roll form is 18 months from date of manufacture when stored in original cartons at 23 / 2 and 50 / 10% relative humidity.



Automotive Disclaimer

Select Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

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Bottom Matter

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

Trademarks

3M is a trademark of 3M Company.

Handling/Application Information

Application Examples

• Nameplate Bonding • Plastic film lamination/bonding • Foam Bonding

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. Some typical surface cleaning solvents are isopropyl alcohol or heptane.*

*Note: Carefully read and 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.

Surface Preparation

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improves bond strength. To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Some typical surface cleaning solvents are isopropyl alcohol or heptane.

References

| Property | Values |
|-----------------------|--|
| 3m.com Product Page | https://www.3m.com/3M/en_US/p/d/b40070491/ |
| Safety Data Sheet SDS | https://www.3m.com/3M/en_US/company-us/SDS-search/results/? gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=93020LE |

Family Group

Link Tags:



| | | | Thickn | Liner | Total Tape Thickn (mm) | Term Temp | Spray Pattern | Adhesi Carrier | Tensile Streng | Foam Color | Backin | Thickn | Conter | Thickn | Term Temp | Color | Long Term | Adhesi Type | |
|----------------------------|----------|-----|-------------|---------------|------------------------|--------------|----------------------|-----------------------------------|-------------------|---------------|-------------------------|------------|--------|--------|--------------|----------|--------------|--------------------------------------|-------------|
| 2710p black | | 37 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 2210 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 36.8 N/cm | N/A | Crepe Paper | N/A | N/A | N/A | N/A | Tan | N/A | Rubber | 80 °C |
| 60CA Cylinde Spray Adhesiv | N/A | N/A | N/A | N/A | N/A | N/A | Lace | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Transluc | c&h/tA | N/A | N/A |
| 9448A | N/A | N/A | 0.12 mm | N/A | N/A | 70 °C | N/A | N/A | N/A | N/A | Tissue Paper | N/A | N/A | 1 mm | N/A | Clear | N/A | Acrylate | 150 °C |
| 2665b | | 35 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 7110b | N/A | | 0.075 mm | N/A | N/A | N/A | N/A | N/A | N/A | N/A | B I / A | 0.25 mm | N/A | N/A | N/A | Black | N/A | N/A | N/A |
| 6011LV | N/A | 78 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 60CA Adhesiv | N/A e | N/A | N/A | N/A | N/A | N/A | Lace or Pebble | N/A | N/A | N/A | N/A | N/A | 43 % | N/A | N/A | Translud | c&h/tA | N/A | N/A |
| VG832 | N/A | N/A | N/A | N/A | 0.9 mm | N/A | N/A | N/A | N/A | White | White kraft liner | N/A | N/A | N/A | 155 °F | N/A | N/A | High Perform Rubber Base | ance N/A |
| VG816 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Closed Cell Crosslir Polyeth Foam | | White | N/A | N/A | N/A | N/A | 155 °F | N/A | N/A | Remova rubber based Adhesiv | N/A |
| VG932 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Closed Cell Crosslir Polyeth Foam | | N/A | N/A | N/A | N/A | N/A | 155 °F | N/A | N/A | Remova Rubber based | |
| VG916 | N/A | N/A | N/A | Blue Kraft | 1.6 mm | 68 °C | N/A | N/A | N/A | White | liner | N/A | N/A | N/A | 155 °F | N/A | -29 °C | Remova Rubber based | |

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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