

# Technical Data Sheet

## 3M™ Adhesive Transfer Tape 8132LE

### Product Description

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

3M™ Adhesive Transfer Tapes with 3M™ Low Surface Energy Acrylic Adhesive 300LSE provides high bond strength to most surfaces, including many low surface energy plastics such as polypropylene and powder coated paints. The acrylic adhesive also provides excellent adhesion to surfaces contaminated lightly with oil typically used with machine parts.


### Product Features

- 3M™ Adhesive 300LSE is a hi-strength acrylic adhesive that provides a very high bond strength to most surfaces.
- Excellent bond to low surface energy plastics such as polypropylene and powder coatings.
- Excellent adhesion to lightly oiled surfaces typical of machine parts.
- Thickness range of 2.3 and 3.6 mils for use on smooth, or rough surfaces.
- Extremely smooth adhesive for excellent graphics appearance.
- Polycoated kraft liner for die-cutting end tabs and waste removed nameplates on a common carrier.
- 3M™ Adhesive Transfer Tape 8132LE is double lined for selective die-cutting.

### 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	3M High Strength Acrylic Adhesive 300LSE	
Liner	PCK PCK	
Primary Liner Type	83# Polycoated Kraft	View 
Notes:	Inner liner is primary (stays with die-cut part); Outer liner is secondary (removed first)	
Secondary Liner Type		

58# Polycoated Kraft

View 

Notes: Inner liner is primary (stays with die-cut part); Outer liner is secondary (removed first)

Liner Thickness

0.102 mm

Primary Liner Thickness

0.102 mm

Secondary Liner Thickness

0.157 mm

Total Tape Thickness (mil)


2.3 mil

View 

Test Method: ASTM D3652

Total Tape Thickness (mm)

0.058 mm

View 

Test Method: ASTM D3652

Liner Print

300LSE

Liner Thickness

4 mil

Primary Liner Thickness

4 mil

Secondary Liner Thickness

6.2 mil

## Typical Performance Characteristics

Property  
Values  
Additional Information

90° Peel Adhesion

7.8 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: 2 mil Aluminum Foil

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

90° Peel Adhesion

71 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: 2 mil Aluminum Foil

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

90° Peel Adhesion

7.7 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: 2 mil Aluminum Foil

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

90° Peel Adhesion

70 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: ABS

Backing: 2 mil Aluminum Foil

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

90° Peel Adhesion

7.5 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: 2 mil Aluminum Foil

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

90° Peel Adhesion

69 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: 2 mil Aluminum Foil

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

90° Peel Adhesion

8.2 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: 2 mil Aluminum Foil

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

90° Peel Adhesion

75 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: 2 mil Aluminum Foil

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

90° Peel Adhesion

8.6 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: ABS  
Backing: 2 mil Aluminum Foil

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

90° Peel Adhesion

79 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: ABS  
Backing: 2 mil Aluminum Foil

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

90° Peel Adhesion

8.1 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)  
Backing: 2 mil Aluminum Foil

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

90° Peel Adhesion

74 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: Polypropylene (PP)  
Backing: 2 mil Aluminum Foil

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

#### Short Term Temperature Resistance

300 °F

View 

Test Condition: Short Term (minutes, hour)

#### Short Term Temperature Resistance

149 °C

View 

Test Condition: Short Term (minutes, hour)

#### Long Term Temp C

93 °C

View 

Test Condition: Long Term (day, weeks)

#### Long Term Temp F

200 °F

View 

Test Condition: Long Term (day, weeks)

## Available Sizes


Property

Values

Additional Information

#### Standard Sheet Size

24in x 36in in

View 

Notes: Custom sheets are available for 3M™ Adhesive Transfer Tapes 8132LE, 8153LE

#### Normal Slitting Tolerance

±0.8 mm

#### Normal Slitting Tolerance

±1/32 in

Minimum Slit Width

305 mm

Minimum Slit Width

12 in

Maximum Slit Width

1219 mm

Maximum Slit Width

48 in

Core Size (ID)

152.4 mm

Core Size (ID)

6 in

Limitations

Maximum 360 yd (329 m)

## Typical Environmental Performance

The properties defined are based on the attachment of impervious faceplate materials (such as aluminum) to a stainless steel test surface.

**Bond Build-up:** The bond strength of 3M™ Adhesive 300LSE increased as a function of time and temperature, and has very high initial adhesion.

**Humidity Resistance:** High humidity has a 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.

**U.V. 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, nameplates and decorative trim parts will hold securely after exposure to numerous chemicals including oil, mild acids and alkalis.

**Temperature Resistance:** 3M™ Adhesive 300LSE is usable for short periods (minutes, hours) at temperatures up to 300°F (148°C) and for intermittent longer periods of time (days, weeks) up to 200°F (93°C).

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

## Processing

**Slitting and die-cutting:** This adhesive is very aggressive and may be difficult to convert depending on your application requirements. Chilling the adhesive between 35°F and 50°F will improve the processability. In addition, dies can be lubricated with evaporative stamping oil. You may also refer to our Technical Bulletin on 3M™ Adhesive 300LSE converting. (70-0707-6205-2)

**Roll Laminating:** A combination of metal and rubber rollers with moderate pressure is recommended. Note: Please refer to the Technical Bulletin on slitting. (70-0709-3905-6)

## Storage and Shelf Life

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Store 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: These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

MSDS: These products 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, the 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.

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, USCPIS, FDA, California Proposition 65, REACH and RoHS, can be found at [3M.com/regs](https://www.3m.com/regs).

## 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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## Bottom Matter

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800-362-3550

## Trademarks

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3M is a trademark of 3M Company.

## Industry Specifications

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This product might be suitable for use in indirect food contact applications. Please see the applicable Regulatory Data Sheet for more information relating to FDA compliance.

## Handling/Application Information

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### Application Examples

- Plastic nameplates or graphic overlays for use on low surface energy plastics.
- Waste removed nameplates on a common sheet for ease of application.
- Attaching membrane switch assemblies to powder coated surfaces and low surface energy plastics.
- Graphic overlays with end tabs for easy liner removal.
- Graphic application to surfaces such as wood, fabric, plastic, where very high bond strength is required.



- Attaching identification material to lightly oily surfaces typical of machine parts.

#### Application Techniques

For maximum bond strength, the surface should be thoroughly cleaned and dried. Typical cleaning solvents are methyl ethyl ketone for metals or isopropyl alcohol for plastics. Carefully read and follow manufacturer's precautions and directions for use when using cleaning solvents.

Bond strength can also be improved with firm application pressure and moderate heat, from 100°F (38°C) to 130°F (54°C), causing the adhesive to develop intimate contact with the bonding surface.

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 for most pressure-sensitive adhesives because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

#### References

Property Values
3m.com Product Page <a href="https://www.3m.com/3M/en_US/p/d/b40065942/">https://www.3m.com/3M/en_US/p/d/b40065942/</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=8132LE">https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&amp;msdsLocale=en_US&amp;co=ptn&amp;q=8132LE</a>

#### Family Group

Link Tags:

- 8132LE
- 8153LE
- 9453LE
- 9471LE
- 9472LE
- 9653LE
- 9671LE
- 9672LE

Products	Adhesive Type	Liner Thickness	Total Tape Thickness (mm)	Short Term Temperature Resistance	Long Term Temp C	Long Term Temp F	Liner	Primary Liner Type	Secondary Liner Type
9471LE	3M High Strength Acrylic Adhesive 300LSE	0.102 mm	0.058 mm	149 °C	93 °C	N/A	N/A	N/A	N/A
9653LE	3M High Strength Acrylic Adhesive 300LSE	0.157 mm	N/A	N/A	93 °C	N/A	83# Polycoated Kraft	N/A	N/A
9671LE	N/A	N/A	0.058 mm	N/A	N/A	200 °F	N/A	N/A	N/A
9672LE	3M High Strength Acrylic Adhesive 300LSE	0.157 mm	0.132 mm	N/A	93 °C	200 °F	N/A	N/A	N/A
9453LE	N/A	N/A	0.091 mm	N/A	N/A	200 °F	N/A	N/A	N/A

8132LE	N/A	N/A	N/A	149 °C	N/A	200 °F	N/A	N/A	58# Polycoated Kraft
9472LE	3M High Strength Acrylic Adhesive 300LSE	N/A	N/A	N/A	N/A	N/A	N/A	58# Polycoated Kraft Paper (PCK)	N/A
8153LE	N/A	N/A	N/A	149 °C	N/A	200 °F	N/A	83# Polycoated Kraft	N/A

## 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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