

# Technical data sheet



Product: 3762LM, 3762

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBSTOFF

Article group: SCHMELZKLEBSTOFF

Download: 09.05.2025

## 3M™ HOT MELT ADHESIVE 3762LM, 3762

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# 3M

## Hot Melt Adhesive

### 3762LM • 3762

#### Technical Data

July, 2016

**Product Description** 3M™ Hot Melt Adhesives are heat applied, 100% solids adhesives. They are fast setting thermoplastic adhesives with good “hot tack” and low to medium viscosity.

3M™ Hot Melt Adhesives bond to a wide variety of substrates such as corrugated, beadboard, repacking chipboard, recouperage, wood and many other lightweight materials.

**3M™ Hot Melt 3762LM** Low temperature application for handling ease. Economical hot melt with excellent “hot tack” and fast set.

**3M™ Hot Melt 3762** Low viscosity adhesive with “quick grab” properties.

- Features**
- 100% solids, no VOCs
  - Easy to use
  - Fast-setting adhesive obtains strength in seconds
  - Low Melt (LM) adhesives are designed for low temperature application and heat sensitive substrates
  - “Quick grab” for instant adhesion that cools to a tack free solid
  - Ideal for packaging and woodworking applications.

#### Typical Physical Properties

**Note:** The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

|                                   | 3M™ Hot Melt Adhesive |      |
|-----------------------------------|-----------------------|------|
|                                   | 3762LM                | 3762 |
| <b>Color (solid)</b>              | Light Amber           | Tan  |
| <b>Density (g/cm<sup>3</sup>)</b> | 1.01                  | 0.95 |
| <b>Flashpoint (°F)</b>            | 560                   | 500  |

#### Directions for Use

**1. Surface Preparation:** Surfaces must be clean, dry and dust free. Wipe with a solvent such as isopropyl alcohol for plastic substrates to aid in removing oil and dirt.\*

**\*Note:** When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer’s precautions and directions for use.

**2. Application:** 3M™ Hot Melt Adhesives are designed for application with a 3M™ Hot Melt Applicators. Read and follow the precautions and directions for use in the user’s manual before operating the applicator. 3M™ Hot Melt Adhesives are applied at 350-385°F, except the Low Melt (LM) series which are designed to be applied at 250-275°F. LM series are adhesives designed for lower temperature application but still yield long-lasting bonds.

# 3M™ Hot Melt Adhesive

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### Directions for Use (continued)

**Open Time** is the maximum amount of time between dispensing adhesive and joining surfaces. Reported open time are based on 1/8" extruded beads and will vary based on bead size, dispense temperature and ambient temperature.

Extruded bead sizes can be customized using 3M™ applicator tips.

**3. Coverage:** 3M™ Hot Melt Adhesives yield approximately 430 linear feet per pound of adhesive when extruded as a 1/8" diameter semi-circular bead.

**4. Set Time:** After the bond is made, 3M™ Hot Melt Adhesives immediately build strength and no clamping is necessary. Set will occur faster on cold or metallic substrates.

### Typical Application Properties

**Note:** The following technical information and data should be considered representative or typical only and should not be used for specification purposes

|  | 3M™ Hot Melt Adhesive   |  |
|--|---|--|
|  | 3762LM  | 3762   |
| <b>Application Temperature<sup>1</sup></b> | 250-270°F/ 121-132°C  | 350-385°F/ 177-196°C                             |
| <b>Viscosity (cps)<sup>2</sup></b>         | 4000 @ 250°F  | 1870 @ 375°F                                     |
| <b>Open Time (seconds)<sup>3</sup></b>     | 25  | 35   |
| <b>Delivery Time (seconds)<sup>4</sup></b> | 45  | 30   |
| <b>Available sizes/forms</b>               | 5/8"x8"Q<br>5/8"x2" TC<br>1"x3" PG<br>1/2"x12"AE<br>1/8" Bulk | 5/8"x8"Q<br>5/8"x2" TC<br>1"x3" PG<br>1/2"x12"AE |

(1) Recommended application temperature range. Temperature can be adjusted to regulate desired viscosity, delivery rate and pot life.

(2) Brookfield Thermocel Viscometer in Centipoise using a #27 Spindle @ 10 RPM.

(3) For 1/8" semicircular bead, Douglas Fir to Douglas Fir.

(4) Extrusion time for one 1"x3" PG cartridge.

### Typical Performance Properties

**Note:** The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

|   | 3M™ Hot Melt Adhesive |                |
|---|-----------------------|----------------|
|   | 3762LM                | 3762           |
| <b>Heat Resistance<sup>1</sup></b>            | 130°F/ 54°C           | 130°F/ 54°C    |
| <b>Ball &amp; Ring Melt Point<sup>2</sup></b> | 205°F/ 96°C           | 201°F/ 94°C    |
| <b>Shear Strength<sup>3</sup></b>             | 480 psi               | 545 psi        |
| <b>Peel Strength<sup>4</sup></b>              | 6 pwi                 | 7 pwi          |
| <b>UL94 Listing</b>                           | n/a                   | V2             |
| <b>FDA Indirect Food Contact<sup>5</sup></b>  | 21 CFR 175.105        | 21 CFR 175.105 |

(1) Highest temperature that the adhesive will support a 2 psi dead load.

(2) ASTM E28-67.

(3) Douglas Fir to Douglas Fir.

(4) Canvas to Douglas Fir.

(5) Permitted for indirect food contact subject to the limitations in applicable CFR section(s).

# 3M™ Hot Melt Adhesive

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|                                    |  |
|------------------------------------|--|
| <b>Storage</b>                     | Store product below 120°F (49°C).  |
| <b>Shelf Life</b>                  | When stored at the recommended conditions, this product has a shelf life of 2 years after 3M ships the product to a customer or distributor.   |
| <b>Pre cautionary Information</b>  | Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577 or (651) 737-6501   |
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ISO 9001:2000



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