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Technical Data Sheet

3M™ Hot Melt Adhesive 3762

English

Last Revision Date: March, 2024

Supersedes: September, 2023

Product Details

Regulatory Info/SDS

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.
• Low viscosity adhesive with “quick grab” properties.

Product 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.

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

Attribute Name	Temperature	Substrate	Value
Color			Tan
Density			0.95 g/cm³ (0.034 lb/in³)
Viscosity	191 °C (375 °F)		1,870 cP [1]
Open Time		Douglas Fir to Douglas Fir	35 s [2]
Delivery Time			30 s [3]
Flash Point			260 °C (500 °F)

[1] Brookfield Thermocel Viscometer in Centipoise using a #27 Spindle @ 10 RPM.
[2] 1/8" semicircular bead
[3] Extrusion time for one 1”x3” PG cartridge.

Typical Performance Characteristics

Temperature: 22 °C (72 °F)

Attribute Name	Substrate	Value
180° Peel Adhesion	Flexible canvas bonded to Douglas Fir	112 oz/in
Overlap Shear Strength	Douglas Fir	545 lb/in²

Attribute Name	Test Method	Value
Application Temperature		177 to 196 °C (350 to 385 °F) [1]
Temperature Resistance		54 °C (130 °F) [2]
Ball & Ring Melt Point	ASTM E28-67	94 °C (201 °F)

[1] Recommended application temperature range. Temperature can be adjusted to regulate desired viscosity, delivery rate and pot life.
[2] Highest temperature that the adhesive will support a 2 psi dead load

Handling/Application Information

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.

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.

Industry Specifications

UL 94 - V2

Storage and Shelf Life

Store below 120°F (49°C).
When stored at the recommended conditions, this product has a shelf life of 24 months from the date of manufacture.

Available Sizes - Detailed

5/8 in x8 in Q
5/8 in x2 in TC
1 in x3 in PG
1/2 in x12 in AE

Precautionary Information

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.

Information

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ISO Statement

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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