



Technical Data Sheet

3M[™] Hot Melt Adhesive 3779





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English

Product Description

3M™ Hot Melt Adhesives are heat applied, 100% solids adhesives. 3M™ Hot Melt 3779 is a thermoplastic adhesive to bond to wide variety of substrates such as wood, plastic, vinyl, metal and glass.

• High strength bonding with excellent environmental stability including very high heat resistance. Fast set time.

Product Features

- 100% solids, no VOCs
- · Easy to use
- Long open times allow for easy use on large assemblies and large surfaces
- Adhesive sets and obtains strength in seconds
- · Creates high performance bonds
- Ideal for woodworking and general industrial 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	Test Method	Temperature	Substrate	Value
Color				Amber
Density				0.99 g/cm³ (0.036
				lb/in³)
Open Time			OSB	25 s ¹
Flash Point	ASTM D92-72			288 °C (550 °F) ²
Delivery Time				75 s ³
Viscosity		191 °C (375 °F)		7,000 cP ⁴

¹ Open time is the max time between the application of the adhesive and joining the parts. Data based on 1/8in semicircular bead on non-metallic substrates at 75°F. Higher environmental temperatures and/or larger beads will lengthen open times.

- ² Cleveland Open Cup
- ³ Extrusion time for one 1"x3" PG cartridge.
- ⁴ Brookfield Thermocel Viscometer in Centipoise using a #27 Spindle @ 10 RPM.

Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Substrate	Value
180° Peel Adhesion		22 °C (72 °F)	Flexible canvas	288 oz/in
			bonded to Douglas Fir	
Overlap Shear		22 °C (72 °F)	Douglas Fir	700 lb/in²
Strength		22 C(/2 1)		
Ball & Ring Melt Point	ASTM E28-67			163 °C (325 °F)

Attribute Name	Value	
Application Temperature	177 to 196 °C (350 to 385 °F) 1	
Temperature Resistance	149 °C (300 °F) ²	

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, metal and glass substrates to remove 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. Adhesives yield approximately 430 linear feet per pound of adhesive when extruded as a 1/8″ diameter semi-circular bead. 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 up 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.

Storage and Shelf Life

Store product below 120°F (49°C).

When stored at the recommended conditions, this product has a shelf life of 24 months from date of manufacture.

Available Sizes - Detailed

5/8 in x8 in Q 5/8 in x2 in TC 1 in x3 in PG 1/8 in Bulk

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

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