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Product Details

Regulatory Info/SDS

# **Product Description**

3M<sup>™</sup> Hot Melt Adhesives are heat applied, 100% solids adhesives. 3M<sup>™</sup> Hot Melt 3779 is a thermoplastic adhesive to 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/cm <sup>3</sup> (0.036
				lb/in³)
Open Time			OSB	25 s 1
Flash Point	ASTM D92-72			288 °C (550 °F) <sup>2</sup>
Delivery Time				75 s <sup>3</sup>
Viscosity		191 °C (375 °F)		7,000 cP 4

<sup>1</sup> 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

- <sup>3</sup> Extrusion time for one 1"x3" PG cartridge.
- <sup>4</sup> 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	32 N/cm (288 oz/in)
		22 C(72 F)	bonded to Douglas Fir	
Overlap Shear		22 °C (72 °F)	Douglas Fir	49 kg/cm <sup>2</sup> (700 lb/in <sup>2</sup> )
Strength				
Ball & Ring Melt Point	ASTM E28-67			163 °C (325 °F)

Attribute Name	Value	
Application Temperature	177 — 196 °C (350 — 385 °F) <sup>1</sup>	
Temperature Resistance	149 °C (300 °F) <sup>2</sup>	

<sup>1</sup> Recommended application temperature range. Temperature can be adjusted to regulate desired viscosity, delivery rate and pot life.

<sup>2</sup> Highest temperature that the adhesive will support a 2 psi dead load

# **Handling/Application Information**

#### **Directions for Use**

 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:  $3M^{\text{TM}}$  Hot Melt Adhesives are designed for application with a  $3M^{\text{TM}}$  Hot Melt Applicators. Read and follow the precautions and directions for use in the user's manual before operating the applicator.  $3M^{\text{TM}}$  Hot Melt Adhesives are applied at  $350-385^{\circ}$ 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  $3M^{\text{TM}}$  applicator tips.

3. Coverage:  $3M^{M}$  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<sup>™</sup> 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 under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 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

#### **Information**

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# **ISO Statement**

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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