Technical data sheet



Product:	3776LM, 3792, 3738
Manufacturer:	3M DEUTSCHLAND GMBH
Product group:	KLEBSTOFF
Article group:	SCHMELZKLEBSTOFF
Download:	31.07.2025

3M[™] HOT MELT 3776LM,3792,3738

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3M Hot Melt Adhesive 3776LM • 3792LM • 3738 • 3792

Technical Data					July, 2016					
Product Description	 3MTM Hot Melt Adhesives are 100% solids, thermoplastic resins that become fluid when heated and quickly wet the bonding surface. They cool, harden and reach bond strength in seconds, keeping production flowing by eliminating clamps, fixturing and drying, and saving time energy and space. 3MTM Hot Melt 3776LM, 3792LM, 3738 and 3792 are thermoplastic adhesives with low to medium viscosity and long open times. They bond to wide variety of substrates such as wood, plain and coated corrugated, sand cores, foams, many plastics, and other lightweight materials. 									
	3M [™] Hot Melt Adhesive 3792 3M [™] Hot Melt Adhesive 3792LM 3M [™] Hot Melt Adhesive 3776LM		 Multi-purpose adhesive with medium viscosity. Bonds dissimilar substrates such as wood to plastic, fabric to metal. Low temperature dispensing version of 3792. Excellent for coated papers, plastics and other heat sensitive substrates. General purpose bonder with low temperature dispensing. 							
						3M TM Hot Melt Adhesive 3738		Low viscosity and long open time for high flow rates, thin bonds, and repositionability.		
						Features	• 100% Solids, no	VOCs		
		• Easy to use								
	• Long open times allow for ease use on large assemblies and large surfaces									
	Adhesive sets and obtains strength in seconds									
	• Low Melt (LM) adhesives are designed for low temperature application and heat sensitive substrates									
	• Ideal for woodworking and general industrial 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.									
		277(I N/	3M TM Hot M		2502					
	Color (solid)	3776LM Tan	3792LM Clear	3738 Tan	3792 Clear					
	Density (g/cm ³)	0.95	1.01	0.95	0.095					
	Flashpoint (°F) ¹	460	> 450	550	> 450					
	(1) Determined by Cleveland Open Cup ASTM D 92-72									

3MTM Hot Melt Adhesive

3776LM • 3792LM • 3738 • 3792

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 TM Hot Melt Adhesives are designed for application with a 3M TM Hot Melt Applicators. Read and follow the precautions and directions for use in the user's manual before operating the applicator. 3M TM 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.						
	 Extruded bead sizes can be customized using 3MTM applicator tips. 3. Coverage: 3MTM 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.						
Typical Application	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.						
Properties		3M TM Hot Melt Adhesive					
		3776LM	3792LM	3738	3792		
	Application Temperature ¹	250-270°F/ 121-132°C	250-270°F/ 121-132°C	350-385°F/ 177-196°C	350-385°F/ 177-196°C		
	Viscosity (CPS) ²	8,250 @ 250°F	10,500 @ 250°F	2,875 @ 375°F	5,000 @ 375°F		
	Open Time (seconds) ³	40	40	50	50		
	Delivery Time (seconds) ⁴	47	57	35	45		

 1/8" Bulk
 1/8" Bulk
 1/8" Bulk

 (1) Recommended application temperature range. Temperature can be adjusted to regulate desired viscosity, delivery rate and pot life.
 1/8" Bulk
 1/8" Bulk

5/8"x8"Q

5/8"x2" TC

1"x3" PG

1/2"x12"AE

5/8"x8"Q

5/8"x2" TC

1"x3" PG

1/2"x12"AE

5/8"x8"Q

5/8"x2" TC

1"x3" PG

1/2"x12"AE

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

5/8"x8"Q

1"x3" PG

1/2"x12"AE

Available

sizes/forms

(3) Open time is the maximum time between the application of the adhesive and when the parts must be joined together. Data based on 1/8" semicircular bead on non-metallic substrates at 75°F. Higher environmental temperatures and/or larger beads will lengthen open times.
(4) Extrusion time for one 1"x3" PG cartridge.

3MTM Hot Melt Adhesive

Typical Performance **Properties**

3776LM • 3792LM • 3738 • 3792

	only and should not be used for specification purposes. 3M TM Hot Melt Adhesive			
	3776LM	3792LM	3738	3792
Heat Resistance ¹	140°F/ 60°C	140°F/ 60°C	130°F/ 54°C	140°F/ 60°C
Ball & Ring Melt Point ²	184°F/ 84°C	178°F/ 81°C	186°F/ 86°C	179°F/ 81°C
Shear Strength ³	600 psi	350 psi	375 psi	250 psi
Peel Strength ⁴	9 piw	13 piw	13 piw	13 piw
UL94 Listing	n/a	V2	V2	V2
FDA Indirect Food Contact ⁵	n/a	21 CFR 175.105	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) Overlap shear measured on Douglas Fir to Douglas Fir.

(4) Measured in pounds per inch width (piw). Flexible canvas bonded to Douglas Fir.

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

Storage Store product below 120°F (49°C). Shelf Life 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. Precautionary 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 **Product Use** All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application. Warranty and Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the Limited Remedy product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective within the warranty period, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to replace the product or refund the purchase price.

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[ISO 9001:2000]

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.

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