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Technical Data Sheet

3M[™] Hot Melt Adhesive 3764

Product Description

3M[™] 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.

3M[™] Hot Melt Adhesive 3764 bonds to a wide variety of substrates such as wood, plain and coated corrugated, fabrics and foams, plastics, and other lightweight materials.

• Excellent general plastics bonder with low temperature flexibility.

Product Features

- 100% solids, no VOCs
- Easy to use
- Adhesive obtains strength in seconds
- Designed for plastics and polyolefin bonding, including ABS, PVC, polycarbonate, polypropylene and polyethylene

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

Property	Values	Additional Information
Open Time	40 s	View ^

Substrate: OSB

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

Density	0.95 g/cm³	
Density	0.034 lb/in³	
Flash Point	268 °C	View ^
Test Method: ASTM D92-72		
Notes: Cleveland Open Cup		
Flash Point	514 °F	View ^
Test Method: ASTM D92-72		



Notes: Cleveland Open Cup

Viscosity	6000 cP	View 🔨
Notes: Brookfield Thermocel Viscometer in C	entipoise using a #27 Spindle @ 10 RPM.	
Delivery Time	55 s	View 🔨
Notes: Extrusion time for one 1"x3" PG cartrid	ge.	
UL Listing	UL 94 - V2	
Typical Uncured Physical Properties		
Property	Values	Additional Information
Color (solid)	Clear	
Typical Performance Characteristics		
Typical Performance Characteristics		
Typical Performance Characteristics Property	Values	Additional Information
	Values 224 oz/in	Additional Information

Substrate: Flexible canvas bonded to Douglas Fir

Application Temperature C	177 to 196 °C	View ^
Notes: Recommended application temperature range. Temperature can be adjusted to regulate desired viscosity, delivery rate and pot life.		
Application Temperature F	350 to 385 °F	View ^
Notes: Recommended application temperature range. Temperature can be adjusted to regulate desired viscosity, delivery rate and pot life.		
Overlap Shear Strength	390 lb/in²	View ^
Substrate: Douglas Fir		
Temperature Resistance	60 °C	View ^
Notes: Highest temperature that the adhesive will support a 2 psi dead load		
Notes. Engliest temperature that the adhesive	will support a 2 psi dead load	
Temperature Resistance	140 °F	View ^
	140 °F	View ^
Temperature Resistance	140 °F	View



Ball & Ring Melt Point	190 °F	View 🔨
Test Method: ASTM E28-67		
FDA Indirect Food Contact	21 CFR 175.105	View ^
Notes: Permitted for indirect food contact sub	oject to the limitations in applicable CFR section(6).

Available Sizes

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

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.

Industry Specifications

UL 94 - V2

Bottom Matter

3M Industrial Adhesives and Tapes Division

3M Center, Building 225-3S-06 St. Paul, MN 55144-1000 800-362-3550

Trademarks

3M is a trademark of 3M.

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.

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

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.

References

Property

Values



3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40065538/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/? gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=3764

ISO Statement

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

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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