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3M 3748VOPG

3M 3748VOPG Hot Melt Adhesive Instruction Manual

Model: 3748VOPG

1. Introduction

This manual provides essential information for the safe and effective use of 3M 3748VOPG Hot Melt Adhesive. This product is a self-extinguishing hot melt adhesive designed to bond to various substrates, including polyolefins. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: Three sticks of 3M 3748VOPG Hot Melt Adhesive. Each stick is light yellow, approximately 1 inch in diameter and 3 inches long, featuring a ribbed surface designed for efficient feeding into compatible hot melt applicators. These sticks are the primary form of the adhesive product.

2. SAFETY INFORMATION

Always prioritize safety when working with hot melt adhesives. Failure to follow safety precautions can result in injury or property damage.

• Personal Protective Equipment (PPE): Always wear appropriate PPE, including safety glasses or goggles and heat-resistant gloves, to protect against hot adhesive burns.

- Ventilation: Use in a well-ventilated area to avoid inhaling fumes.
- Hot Surfaces: Hot melt applicators and dispensed adhesive are extremely hot. Avoid direct skin contact.
- First Aid for Burns: In case of skin contact with hot adhesive, immediately cool the burn with cold water for several minutes. Do not attempt to remove the adhesive from the skin; seek medical attention.
- **Flammability:** Although this adhesive is self-extinguishing, keep it away from open flames and ignition sources.
- Storage: Store adhesive sticks in a cool, dry place, away from direct sunlight and extreme temperatures.

3. SETUP

Proper setup ensures optimal performance and safety.

- Prepare Work Area: Ensure your work area is clean, well-lit, and well-ventilated. Clear any flammable materials.
- 2. **Gather Equipment:** You will need a compatible hot melt applicator (glue gun), the 3M 3748VOPG adhesive sticks, and the materials to be bonded.
- 3. **Surface Preparation:** Ensure bonding surfaces are clean, dry, and free from dust, oil, grease, or other contaminants. Lightly abrading smooth surfaces may improve adhesion.
- 4. Load Applicator: Insert a 3M 3748VOPG adhesive stick into the rear of the hot melt applicator.
- 5. **Preheat Applicator:** Plug in the applicator and allow it to preheat to its operating temperature. Refer to your applicator's manual for specific heating times, typically 5-10 minutes.

4. OPERATING INSTRUCTIONS

Follow these steps for effective application of the hot melt adhesive.

- 1. **Test Application:** Before applying to your final project, test the adhesive on a scrap piece of material to ensure proper flow and adhesion.
- Apply Adhesive: Once the applicator is heated, gently squeeze the trigger to dispense the molten adhesive
 onto one of the bonding surfaces. Apply a sufficient amount to create a strong bond without excessive
 overflow.
- 3. **Join Surfaces:** Immediately press the two surfaces together firmly. Hot melt adhesives set quickly, so alignment must be done promptly.
- 4. **Hold in Place:** Maintain pressure for a few seconds until the adhesive cools and forms an initial bond. The exact time will vary depending on ambient temperature and material type.
- 5. **Curing:** While hot melt adhesives provide immediate handling strength, full bond strength may develop over a longer period as the adhesive fully cools and solidifies.
- 6. **Reloading:** As the adhesive stick shortens, insert a new stick into the applicator to maintain continuous flow.

5. MAINTENANCE

Proper care of your hot melt applicator and adhesive ensures longevity and consistent performance.

- Cleaning Applicator Nozzle: After use, if there is excess adhesive on the nozzle, allow it to cool slightly and carefully wipe it clean with a heat-resistant cloth. Never attempt to clean a hot nozzle with bare hands.
- Storage of Applicator: Unplug the applicator and allow it to cool completely before storing. Store in a clean, dry place.
- Adhesive Storage: Store 3M 3748VOPG adhesive sticks in their original packaging in a cool, dry

environment to prevent degradation or contamination.

• Inspection: Periodically inspect adhesive sticks for any signs of damage or contamination before use.

6. TROUBLESHOOTING

Refer to this section for common issues and their resolutions.

Problem	Possible Cause	Solution
Adhesive not flowing	Applicator not heated sufficiently; nozzle clogged; adhesive stick jammed.	Allow more preheating time; check for and clear nozzle obstruction (when cool); ensure stick is properly loaded.
Weak bond	Insufficient adhesive applied; surfaces not clean; insufficient pressure applied; adhesive cooled too much before joining.	Apply more adhesive; clean and prepare surfaces thoroughly; apply firm pressure immediately; work quickly.
Excessive stringing/cobwebbing	Applicator temperature too high; adhesive applied too slowly.	Reduce applicator temperature if adjustable; apply adhesive more quickly and decisively.

7. SPECIFICATIONS

Key technical details for the 3M 3748VOPG Hot Melt Adhesive.

Model: 3748VOPG

Type: Hot Melt Adhesive

Color: Light Yellow

Form: Sticks (1 inch x 3 inches, nominal)

Special Feature: Self-extinguishing

Manufacturer: 3M
ASIN: B075WYCDG6

Product Dimensions (Packaging): 11.9 x 8 x 14.9 inches (approximate, for bulk packaging)

Item Weight (Packaging): 23.3 Pounds (approximate, for bulk packaging)

8. STORAGE AND DISPOSAL

8.1 Storage

Store 3M 3748VOPG Hot Melt Adhesive in its original packaging in a cool, dry place, away from direct sunlight and extreme temperatures. Keep out of reach of children and pets. Proper storage helps maintain product integrity and performance.

8.2 Disposal

Dispose of used or unwanted adhesive sticks and packaging according to local regulations. Consult your local waste management authority for guidance on proper disposal methods for industrial adhesives.

9. WARRANTY INFORMATION

3M products are manufactured to high-quality standards. For specific warranty details regarding the 3M 3748VOPG Hot Melt Adhesive, please refer to the official 3M website or contact 3M customer service. This adhesive is sold with the understanding that the user will determine its suitability for their particular application.

10. CUSTOMER SUPPORT

For technical assistance, product inquiries, or further information, please contact 3M customer support through their official website or the contact details provided on the product packaging. When contacting support, please have your product model number (3748VOPG) and any relevant purchase information available.

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