3M™ Hot Melt Adhesive 3748 VO TC, Light Yellow, 5/8 in x 2 in, 11 lb, Case

Part Number: 7000120772 , 3M Product Number: 3748 VO-SL 2M-D , UPC: 00051131058581

9.9 (8)

Hover over image to zoom in

Change edition

Container Size (Metric)	5 kg
Container Size (Imperial)	11 lb

Tough, flexible bond provides good thermal shock resistance

Adhesive to difficult-to-bond plastics such as polyolefins

100 percent solids bonds with negligible shrinking or contracting

View more details

Frequently viewed resources

Safety Data Sheet (PDF)

View all resources

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Details

Highlights

- Tough, flexible bond provides good thermal shock resistance
- Excellent adhesion ensures reliable, permanent bond
- Adhesive to difficult-to-bond plastics such as polyolefins
- Self-extinguishing properties for electrical applications
- 100 percent solids bonds with negligible shrinking or contracting

movement.

Uniquely Versatile
We formulate 3M™ Hot Melt Adhesive 3748 VO to cure to a strong, flexible bond for shock and vibration resistance that ensures a reliable and lasting bond. Our adhesive formulation provides good peel adhesion and thermal shock properties, the unique adhesion of different components, along with the heat resistance necessary in electronic and other environments. It offers excellent electrical properties which make it ideal for use on printed wiring board and other electronic bonding applications. It bonds well to challenging surfaces such as polyolefins and other plastics. In addition, this versatile and unique formula is non corrosive to copper and other metals.

Rigidize components as printed circuit boards to add stability during assembly, shipping and end use

Recommended Applications

- Heavy duty electrical cords and connectors
- Electronics in plastic cases
- Circuit boards
- Woodworking
- Furniture
- Automotive
- Transportation
- Aerospace
- General industrial
- Upholstery
- Point of Purchase (PoP) display

Versatile Formula
3M™ Hot Melt Adhesive 3748 VO is self-extinguishing and has a UL 94 VO rating. In addition to its exceptional electronic applications, our adhesive formula is also useful in many general industrial bonding and sealing applications where a self-extinguishing characteristic is required. Throughout various industries, 3M™ Hot Melt Adhesives are used for potting and encapsulating where their flow and conformability allow them to fill into, or dome over, complex shapes. The shock resistant formula protects components and wiring connections against vibration, minor impact and thermal shock.

Using 3M™ Hot Melt Adhesives uniformly distributes stress along the entire bond line. Nuts, bolts and other fasteners concentrate stress at a point which can decrease physical properties of the substrates being assembled. Uniform distribution along the bond line provides good fatigue resistance and the flexible properties of 3M™ Hot Melt Adhesive 3748 VO minimize stress from vibration or other movement. While many of our 3M adhesives provide a strong bond, they also add an effective seal against dirt, dust, water and other environmental conditions. Using hot melt adhesives is quicker and easier than soldering, requiring no soldering flux or associated fumes.

Adhesive can be dispensed with 3M™ Scotch-Weld™ Hot Melt Applicator PG II, 3M™ Scotch-Weld™ Hot Melt Applicator TC, or the 3M™ Scotch-Weld™ Hot Melt Applicator TC-Q and 4C.

Hot Melt Characteristics
Low melt adhesives hot glue sticks have a relatively low melting point of approximately 250 - 270° F/107 - 132° C and are applied with low-temperature applicators, commonly referred to as hot glue guns. Low melt adhesives are beneficial in that they can be used to bond heat sensitive materials such as foam and a range of plastics. They provide a nearly instant bond that allows the bonded surfaces to be separated when reheated. The aggressive hot tack nature of low melt adhesives speeds up production and assembly operations that involve light gage metals, some plastics, and other non-fibrous materials in addition to building display boards, floral displays, and hobby projects. Low melt adhesives are also widely used in manufacturing, assembly and packaging processes.

Typical properties

Details	
Adhesive Type	Polypropylene
Application Method	Spray, Handheld Process
Assembly Type	Potting & Encapsulating
Brands	3M
Container Size (Imperial)	11 lb
Container Size (Metric)	5 kg
Heat Resistance Temperature (Celsius)	79.0 °C
Heat Resistance	
Temperature (Fahrenheit)	175.0 °F
Industries	Automotive, Construction, Consumer Goods, Electronics, Furniture, General Industrial, Military & Government, Packaging, Retail, Signage, Specialty Vehicle, Transportation, Woodworking
Maximum Operating Temperature (Fahrenheit)	175 °F
Open Time	20 Second
Product Color	Light Yellow
Product Form	Pound
Shear Strength	275 psi
Smallest Saleable Unit	Case
Solids Weight Percent (Approximate)	100 %

Dimensions and Classifications	
Overall Length (Imperial)	2 in
Overall Length (Metric)	0.05 m
Overall Width (Imperial)	0.62 in
Overall Width (Metric)	15.8 mm

Resources

Safety Data Sheets (1) | Regulatory Data Sheet (1) | Other (1) | Brochures (2)

3M™ Hot Melt Adhesive 3748 VO-PG-3748 VO-QL-3748 VO-TC

Safety Data Sheets
Document Number: MSDS_1901968_US_EN (PDF)

Reviews

Reviews

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Related products

Accessory for (1)

Accessory for
3M™ Hot Melt Tapered Aluminum Extension Tip 3748-3107 in 10 Total Pack

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Feedback

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