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3M™ Scotch-Weld™ Hot Melt Adhesive 3748-TC Off-White, 5/8 in x 2 in, 11 lb case



A high performance hot melt adhesive for bonding many plastics including polyethylene and polypropylene. It has excellent thermal shock, good heat resistance, good electrical properties, and it is non-corrosive to copper. Designed for use through 3M™ Scotch-Weld™ Hot Melt Applicator, TC.

[\[click to enlarge\]](#)

GTIN(UPC/EAN) : 0 00 21200 82584 2

3M Id : 62-3748-9830-2

Additional Information

Excellent for rigidization of printed wiring board components and many other electronic applications requiring high performing adhesion. (EC Setting - #4).

Characteristics

Color	Off-White
Product Form	Pound
Trademark Name 1	3M
Trademark Name 2	Scotch-Weld

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3M™ Scotch-Weld™ Hot Melt Adhesive 3748-TC Off-White, 5/8 in x 2 in, 11 lb case Packaging

3M Id: 62-3748-9830-2

Minimum Order Quantity: 11.0 LBS

Case Quantity: 11.0 LBS

	English	Metric
Length	11.4 INCH	0.290 MTR
Width	8.2 INCH	0.208 MTR
Height	7.2 INCH	0.183 MTR
Gross Weight	11.7710 LBS	5.3392 KG



Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) Scotch-Weld(TM) Hot Melt Adhesive 3748-PG / 3748-TC / 3748-TCJ-Q / 3748-Q / 3748-B / 3748-AE

MANUFACTURER: 3M

DIVISION: Industrial Adhesives and Tapes Division

ADDRESS: 3M Center
St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 12/05/2008

Supersedes Date: 03/06/2006

Document Group: 10-9990-2

Product Use:

Intended Use: hot-melt adhesive
Specific Use: hot melt adhesive

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by Wt
POLYPROPYLENE	9003-07-0	15 - 40
HYDROCARBON RESIN	69430-35-9	10 - 30
STYRENE-BUTADIENE POLYMER	Trade Secret	10 - 30
ETHYLENE-PROPYLENE POLYMER	9010-79-1	5 - 25
POLYETHYLENE	9002-88-4	5 - 20
POLYOLEFIN WAX	Mixture	7 - 13

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Waxy Solid

Odor, Color, Grade: off-white, mild resinous odor

General Physical Form: Solid

Immediate health, physical, and environmental hazards: May cause thermal burns.

Autoignition temperature	626 °F
Flash Point	536 °F [Test Method: Cleveland Open Cup]
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>

5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Reclaim undamaged product. Collect as much of the spilled material as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid skin contact with hot material. Keep out of the reach of children.

7.2 STORAGE

Store under normal warehouse conditions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Not applicable. Use in a well-ventilated area.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Indirect Vented Goggles.

8.2.2 Skin Protection

Wear appropriate gloves, such as Nomex, when handling this material to prevent thermal burns. Avoid skin contact with hot material.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing

Not an expected route of exposure.

8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
POLYOLEFIN WAX	ACGIH	TWA, as fume	2 mg/m3	
POLYOLEFIN WAX	OSHA	TWA, as fume	2 mg/m3	Table Z-1A
POLYPROPYLENE	CMRG	TWA, as respirable dust	5 mg/m3	
POLYPROPYLENE	CMRG	TWA, as total dust	10 mg/m3	

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Waxy Solid
Odor, Color, Grade:	off-white, mild resinous odor
General Physical Form:	Solid
Autoignition temperature	626 °F
Flash Point	536 °F [Test Method: Cleveland Open Cup]
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>
Boiling point	<i>Not Applicable</i>
Density	0.92 - 0.94
 Vapor Density	Nil
 Vapor Pressure	Nil
Specific Gravity	0.92 - 0.94 [Ref Std: WATER=1]
pH	<i>Not Applicable</i>
Melting point	<i>No Data Available</i>
 Solubility in Water	Nil
Evaporation rate	<i>Not Applicable</i>
Volatile Organic Compounds	<i>Not Applicable</i>
Percent volatile	0 % weight
VOC Less H₂O & Exempt Solvents	<i>No Data Available</i>
Viscosity	4,000 - 6,000 centipoise [@ 190 °C]

SECTION 10: STABILITY AND REACTIVITY