



# Scotch-Weld Hot-melt<sup>TM</sup> 3792 Adhesive

## Product Data Sheet

Updated : April 2008  
Supersedes : March 1996

### Product Description

Scotch-Weld Adhesive 3792 is a general purpose plastics bonding hot melt adhesive with a long bonding range.

### Physical Properties

Not for specification purposes

<b>Base</b>	EVA	
<b>Colour</b>	Clear	
<b>Viscosity</b> cP at 190°C <sub>1</sub>	5000	
<b>Temperature Control Setting</b>	4	
<b>FDA Accepted</b> <sub>2</sub>	Yes	
<b>Sizes Available</b>	26 x 73 mm for the Scotch-Weld Air Powered Applicator. 15 x 203 mm for the Scotch-Weld Touch Control Quadrack Applicator. 15 x 48 mm for the Scotch-Weld Touch Control Applicator. 12 x 300 mm for the Scotch-Weld All Electric Applicator.	
<b>Shelf Life</b>	12 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	
<sub>1</sub> Brookfield Thermosel Viscometer. <sub>2</sub> FDA Reg. 175.105 (adhesives) CFR Title 21.		

### Performance

#### Characteristics

Not for specification purposes

<b>Delivery Rate for 25 x 73 mm slug</b>	45 seconds	
<b>Ball and Ring Softening Point</b> <sub>3</sub>	81°C	
<b>Heat Resistance</b>	60 °C	
<b>Impact Resistance</b>	13 in/lbs at -18°C 42 in/lbs at 22°C	

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**Performance  
Characteristics Cont'd**  
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<b>Peel Strength at 22°C</b> 4	23 N/10mm	
<b>Shear Strength at 22°C</b> 5	1.7 MPa	
<b>Tensile Strength at 22°C</b>	2.7 MPa	
<b>Elongation</b>	750 %	
<b>Bonding Range 3mm bead</b> 6	50 seconds	
<p>3 ASTM E-28-6-7. 4 On Canvas. 5 On Douglas Fir. 6 3mm semi circular bead, Douglas Fir to Douglas Fir.</p>		

**Health and Safety  
Information**

Hot adhesive vapours may irritate eyes and respiratory system. Do not touch hot extruded adhesive or applicator tip. Avoid prolonged breathing of vapours.  
Avoid eye exposure to heated product vapours. In case of skin contact with hot adhesive, immediately flush with cold water and cover with a clean dressing. Do not attempt to remove adhesive, have burn treated by a doctor.

For further health and safety information, please contact the 3M Toxicology Department in Bracknell on (0344) 858000.

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



**Industrial Adhesives & Tapes Division**

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