



# Jet-melt™

## 3796 Adhesive

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### Product Data Sheet

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Updated : March 1996  
Supersedes : December 1993

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**Product Description** Jet-melt Adhesive 3796 is a high performance multi purpose hot melt adhesive with high heat resistance.

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**Physical Properties**  
Not for specification purposes

<b>Base</b>	Polyester	
<b>Colour</b>	Light Tan	
<b>Viscosity</b> cP at 190°C <sup>1</sup>	7500	
<b>Temperature Control Setting</b>	N/A	
<b>FDA Accepted</b> <sup>2</sup>	No	
<b>Sizes Available</b>	26 x 73 mm for the Jet-melt Air Powered Applicator. 15 x 48 mm for the Jet-melt Touch Control 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	
<sup>1</sup> Brookfield Thermosel Viscometer. <sup>2</sup> FDA Reg. 175.105 (adhesives) CFR Title 21.		

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**Performance Characteristics**  
Not for specification purposes

<b>Delivery Rate for 25 x 73 mm slug</b>	120 seconds	
<b>Ball and Ring Softening Point</b> <sup>3</sup>	116 °C	
<b>Heat Resistance</b>	93 °C	
<b>Impact Resistance</b>	13 in/lbs at -18°C 29 in/lbs at 22°C	

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**Performance Characteristics**  
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<b>Peel Strength at 22°C</b> 4	50 N/10mm	
<b>Shear Strength at 22°C</b> 5	3.7 MPa	
<b>Tensile Strength at 22°C</b>	2.5 MPa	
<b>Elongation</b>	930 %	
<b>Bonding Range 3mm bead</b> 6	40 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.



**Specialty Tapes & Adhesives**

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