

Temporary Product Data Sheet

			Supersedes : March 1997
Product Description	3M Jet-Weld™ TE-200 Adhesive is a one- component, moisture curing, urethane adhesive that is applied warm.	This low viscosity adhesive has a long open time and is ideal for bonding wood. Yields thin glue lines.	
	 100% solids Long open time	One componentLow viscosity	Very high strength bonds to woodRapid rate of strength build-up
	Bonds selected plastics		

Physical Properties (Uncured) Not for specification purposes

Application	250 °F		
Temperature	121°C		
Viscosity (at 250°F - 121°C)	3,000 cps (MPa.s)		
Colour (solid)	White/Off-White		
Open Time ²	4 minutes		
Set Time ³	2 minutes		
Density molten lbs/gallon	8.9		
Shelf Life	6 months from date of despatch by 3M when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity		
	ometer with Thermosel using s		
² The bonding range of a 3.2mm/1/8" bead of molten adhesive on a non-metallic substrate.			
³ The minimum amount of time required between when the bond is made and when it			
will support a 3.6 N/mm ² tensile load.			

Updated

: November 1997

Physical Properties (Cured) Not for specification purposes	Shore D Hardness ¹	60	
	Modulus ²	67 N/mm² (9,700 psi)	
	Tensile Strength at Break ²	28 N/mm ² (4,000 psi)	
	Elongation at Break ²	625 %	
	¹ Measured on 2.3 - 2.8mm thick bars ² ASTM D 638, Die C, measured on 0.28 - 0.30 mm thick films cured for a minimum of 7		

days at 77°F (25°C) / 50% Relative Humidity.

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Performance Characteristics

Not for specification purposes

Note: The following technical information and data should be considered

representative or typical only and should not be used for specification purposes.

Overlap Shear Strength

Tested at 73°F (23°C)

Substrate	MPa	psi
Maple	13.45	1,950
FRP	24.14	3,500
Polycarbonate	15.17*	2,200*
Polyacrylic	8.62*	1,250*
Polystyrene	4.48*	650*
ABS	8.62*	1,250*
PVC	14.83*	2,150*
* Substrate Failure		

Overlap Shear Strength

Tested at 180°F (82°C)

Substrate	МРа	psi
Maple FRP	4.28 10.69	620 1550
* Substrate Failure		

180° Peel Strength

Tested at 73°F (23°C)

Substrate	N/10mm	piw	
FRP	140*	80*	
Polycarbonate	158*	90*	
Polyacrylic	80*	46*	
Polystyrene	16	9	
ABS	140*	80*	
PVC	140*	80*	
Aluminium	NT	NT	
Glass	NT	NT	
¹ Cotton duck failed during t	est.		
NT : Not Tested			
* Substrate Failure			

Apply to clean, dry surfaces. **Directions for Use** Note: Do not bond metal or Clean Up: glass to itself or each other Remove oil, grease and Allow product to solidify. other contaminants by because cure will not occur Remove uncured waxy wiping with isopropyl due to the low moisture material (usually within the alcohol*. For fibre vapour permeation rate of first 20 minutes after reinforced plastics and other application) by scraping the substrate. materials that are often with a putty knife or similar contaminated with mold tool. For cured material, Cure Time: release agents, it is remove by cutting or The cure rate will vary recommended that the sanding. Do not use heat depending on air surface be solvent wiped, or flame to remove temperature, relative abraded and solvent wiped*. humidity, substrate type and adhesive. After heating to 250°F bond line thickness. Cure (121°C), apply adequate rate is more rapid on wood * Note: When using amount of Jet-Weld™ (moisture-rich substrate) solvents, extinguish all Adhesive to one of the than on plastic. ignition sources and substrates to be bonded. observe manufacturers' Join the substrates within directions and precautions the recommended open for handling such materials. time and hold/fixture the bonded part until the adhesive has adequately set. Cartridge dispensing **Bulk dispensing** Important: Adhesive **Dispensing Equipment** equipment: 300ml equipment: Bulk heated at application aluminium cartridges of 3M containers of adhesive can temperature for more than Jet-WeldTM Adhesive only be dispensed through 16 hours should be should only be dispensed equipment specifically discarded. designed for use with hot with the 3M Jet-WeldTM Adhesive Applicator or the melt polyurethane reactive adhesives (PUR's). All 3M Jet-Weld[™] II Adhesive equipment must be used in Applicator. The adhesive strict accordance with the should be preheated for 45 recommendations of the minutes in the 3M Jetequipment manufacturer. WeldTM Adhesive Preheater or the 3M Jet-Weld^{\rm TM} II Applicator prior to dispensing. Refer to the Product Label **Health and Safety** and Material Safety Data Information Sheet for Health and Safety Information before using this product.

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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

3M United Kingdom PLC 3M House, 28 Great Jackson Street, Manchester, M15 4PA

Tel 0161 236 8500 Fax 0161 237 1105

Customer Service :

3M Ireland 3M House, Adelphi Centre, Upper Georges Street, Dun Laoghaire,Co. Dublin, Ireland © 3M United Kingdom PLC 1996

Customer Service :

Tel (01) 280 3555 Fax (01) 280 3509

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