



# Tru-Bond™ PSA 11000

Pressure Sensitive Adhesive, UV/Visible Light Cure Adhesive

## PRODUCT DESCRIPTION

Tru-Bond™ PSA 11000 is a one-part, solventless PSA (pressure sensitive adhesives) that cures to a tacky adhesive when exposed to UV/Visible light. This adhesive can be cured directly through clear or translucent surfaces or cured first prior to assembly. The curing first method allows for the joining of parts at some future point. This product can bond a wide range of substrates including PE, PP, PET, and most plastics, metals, glass, and ceramics. It can be sprayed, roll coated, bead or brush applied, screen printed or used in a flexographic printing process.

## PRODUCT CHARACTERISTICS

Chemical Class	Acrylic
Appearance(uncured)	Clear liquid
Components	Single-requires no mixing
Viscosity	Medium

## TYPICAL PROPERTIES OF UNCURED MATERIALS

Specific gravity@25 °C	1.10
Viscosity@25 °C, Brookfield RV	
Spindle 3, 5 rpm, cP	11,000
Flashpoint, °F(°C)	>212(100)
Non-Volatile Materials, %	>99
VOC, %	<1
Shelf life, mos	24
Solubility	ketones, oxygenated solvents

## TYPICAL PROPERTIES OF CURED MATERIALS

Color.	Optically Clear
Boiling Water, ASTM D570 (2 hrs.), %	3.4
Shore hardness	31 A
SAFT(Shear Adhesive Failure Temperature), °F(°C)	260(127)

## ADHESION PERFORMANCE

Peel Force to Various Substrates. PSTM1 Test., 3-mil adhesive on PET film, Cured at 1.2 J/cm<sup>2</sup> with uvi-tron INTELLI-RAY 600. Assembled and then tested at 24 hours. 180° peel test.

	<u>pli</u>	<u>N/mm</u>
Al	11.19	1.86
Acrylic	6.98	1.22
Polycarbonate	7.09	1.24
Glass	8.81	1.54
ABS	6.52	1.14

## PROCESSING

ITW products are easily applied by syringe dispense or specialty valve spray units. The materials cure extremely fast in bondlines, e.g. where the surfaces are not exposed to air, with UV or Visible radiation. Exposure doses range from .5 - 2 J/cm<sup>2</sup> depending on the intensity of the lamps and configuration of the assembly.

## PRECAUTIONS

Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.

## STORAGE

Store the unopened product in a cool, dry, well ventilated location away from sources of heat. Optimal storage temperatures should range between **10 °C (50 °F) and 32 °C (90 °F)**. **Do not expose the product to light.** It may polymerize upon prolonged exposure to ambient or artificial light. Product removed from the containers during use should not be returned to original containers in order to avoid potential contamination.

## CONVERSIONS

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$   
 $\text{kV/mm} \times 25.4 = \text{V/mil}$   
 $\text{mm} / 25.4 = \text{inches}$   
 $\mu\text{m} / 25.4 = \text{mil}$   
 $\text{N} \times 0.225 = \text{lb}$   
 $\text{N/mm} \times 5.71 = \text{lb/in}$   
 $\text{N/mm}^2 \times 145 = \text{psi}$   
 $\text{MPa} \times 145 = \text{psi}$   
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$   
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$   
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$   
 $\text{mPa}\cdot\text{s} = \text{cP}$

## WARRANTY

ITW will replace any material found to be defective. Because the storage, handling and application of this material are beyond our control, we can accept no liability for the results obtained.

## NOTE

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