

Tru-Bond[™] PB 950

Plastic Bonder, UV/Visible Light Cure Adhesive

PRODUCT DESCRIPTION

The Tru-Bond[™] Plastic Bonding Series of products provide UV/Visible light cured bonds to a wide range of plastics including ABS, polycarbonate, PET, PETG, flexible vinyls, urethanes and acrylics. The adhesive creates a flexible resilient polymer with outstanding impact resistance and flex. These products can also cure through most translucent substrates and UV blocked plastics.

PRODUCT CHARACTERISTICS

Chemical Class	Urethane Acrylate
Appearance(uncured)	Clear liquid
Components	Single-requires no mixing
Viscosity	Low

TYPICAL PROPERTIES OF UNCURED MATERIALS

Specific gravity@23 °C	1.0
Viscosity@23 °C, Brookfiel	d RV
Spindle 3, 6 rpm, cP	950
Flashpoint, °F(°C)	>171(77)
Non-Volatile Materials, %	>99
VOC, %	<1
Shelf life, mos	24
Solubility	ketones, oxygenated solvents

TYPICAL PROPERTIES OF CURED MATERIALS

Clear	
1.50	
>98	
511(3.5)	
348	
496(3.4)	
7.41	
1.95	
Water absorption, ASTM D570 (24 hrs.), % 4.3	
3.0	
42D	
) to 300(149)	

FIXTURE TIME AND TACK-FREE TIME

Light Source	Irradiance (mW/cm ²)	Fixture Time (Sec.)	Tack free Time (Sec.)
CT100	20	< 5	N/A
Fusion ® D bulb	1,000	< 1	< 4
Uvitron PortaRay 400R	250	< 2	N/A

DEPTH OF CURE (mm, MIN)

Light Source	Irradiance (mW/cm ²)	Exposure Time 30 Sec. (mm)
400 W Metal Halide Bulb	20	3

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/cm² 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

 $(^{\circ}C x 1.8) + 32 = ^{\circ}F kV/mm x 25.4 = V/mil mm / 25.4 = inches$ $\mum / 25.4 = mil N x 0.225 = lb N/mm x 5.71 = lb/in N/mm² x 145 = psi MPa x 145 = psi N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP$

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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For technical assistance, please call:

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