



Tru-Bond™ GB 205
 Glass Bonder
 UV/Visible Light Cure Adhesive

Technical Data Sheet
 May 2010

PRODUCT DESCRIPTION

The Tru-Bond™ Glass Bonding Series products cure upon exposure to UV/Visible Light. The fast curing adhesive forms a tough, high clarity, high strength bond between glass and metal, aluminum and many other substrates.

Typical Physical Properties

Uncured:

Chemical Class.....Acrylate
 Color.....Clear
 Components.....Single
 Non-Volatile materials.....99+%
 VOC.....<1%
 Flashpoint.....>212°F
 Viscosity.....205 cps
 Specific gravity.....1.07
 Shelf life.....24 mos.
 Solubility.....ketones, oxygenated solvents

Cured:

Color.....Clear
 Refractive Index.....1.51
 Optical Clarity.....>98%
 Tensile strength.....2,290 psi
 Elongation ASTM D638.....15%
 Modulus of Elasticity ASTM D882.....33,140 psi
 Volume Shrinkage.....8.41%
 Lineal Shrinkage.....2.03 %
 Water absorption ASTM D570 (24 hrs.).....3.2 %
 Boiling Water % ASTM D570 (2 hrs.).....6.1 %
 Shore hardness.....78D
 Temperature range.....-65°F to 300°F
 Adhesive Lap Shear (Acrylic/GBS).....484 psi (substrate failure)
 Adhesive Lap Shear (Glass).....1842 psi (substrate failure)

Fixture Time and Tack-free Time:

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

Depth of Cure (inches, min):

Light Source	Irradiance	Exposure Time 30 seconds
400 W Metal Halide Bulb	20 mW/cm ²	3 mm

PROCESSING

ITW Devcon 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 mJ/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.

Warranty:

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

Disclaimer:

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Devcon makes no representations or warranties of any kind concerning this data.

For technical assistance, please call 1-800-933-8266

FOR INDUSTRIAL USE ONLY

ORDERING INFORMATION:

<u>Stock No.</u>	<u>Unit Size</u>
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18100	25ml syringe
18101	Liter