



GB508

Adhesives with refractive indices from 1.52 to 1.6 can be used bond glasses, optical fiber industry, and monitor/display. Gigbond developed adhesives with refractive indices higher than 1.53 and viscosities from 25 to 900 cP.

GB508 is a one-part UV curable acrylic adhesive. It provides excellent adhesion strength towards glass, metal, and plastic. It has high refractive index and optical clarity, making itself an outstanding candidate for bonding optical lenses, spectacles glass and crystal arts. The adhesive can be cured in a few seconds upon exposure to UV light, contains no non-reactive solvent, and are environmentally friendly.

Physical Properties—Uncured

Base compound	Acrylated urethane
Appearance	Clear, light amber
Density	1.05
Viscosity (25°C, cP)	900

Physical Properties—Cured

Appearance	clear
Hardness (Shore)	D71
Tensile at break (MPa)	10
Elongation at break (%)	82
Modulus (MPa)	150
Water absorb (%)	
Room temp, air, 24h	0
Boiling water, 2h	1.2
Linear shrinkage (%)	1.8
Refractive Index	1.5279

Specification and Approval

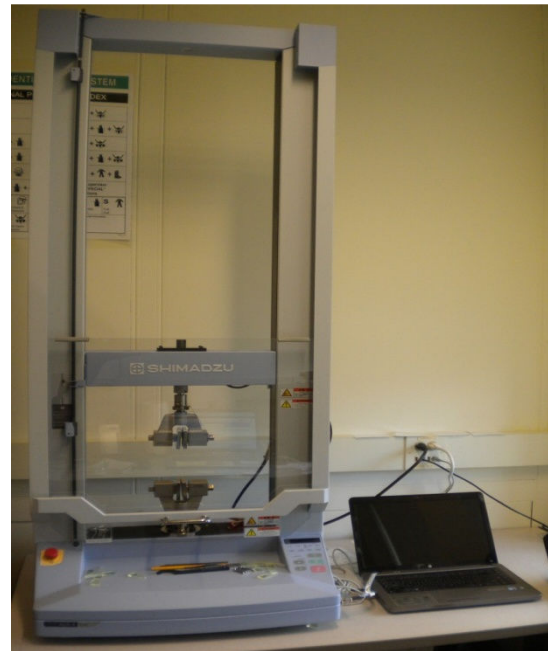
ISO 10993-5

Cure UV/Vis or LED

Sterilization

The device bonded with this adhesive can be sterilized with general methods, including ethanol, gamma radiation and ethylene oxide. It is recommended that

customers test the device after sterilization with a specific method.



Use Directions

This product is sensitive to UV as well as visible light. Exposure to artificial lighting should be kept to a minimum before curing process. Dispensing device should be light blocking. For best performance, bond surfaces should be clean and free of grease. Cure rate depends on many factors, such as lamp intensity, distance from light source, required cure depth, bond gap, and light transmittance of the substrate. Excess uncured adhesive can be cleaned with organic solvent. Oxygen may inhibit the curing of this product, and thus curing in oxygen rich environment should be avoided.

Storage and Shelf Life

The product should be stored in dry and dark places with temperature between 10-30°C. Do not return product to the original container as materials being taken out from containers may have been contaminated. The product should be kept away from extreme heat, cold, and direct light. Do not refrigerate. This product has a 12 month shelf life from the date of shipment if unopened.

General Information

The product should be kept out of reach from children. Cautious should be taken to avoid contact with skin, eyes, and vapor inhalation. Repeated and continuous skin contact with uncured material may cause irritation. Remove the material from skin or eyes with soap and



water, but not organic solvent. For more safe handling information of this product, consult the Material Safety Data Sheet (MSDS).

Note

The data contained herein are furnished for information only and are believed to be reliable. Gigbond LLC cannot assume responsibility for the results obtained by others over whose methods Gigbond LLC has no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Gigbond LLC specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Gigbond LLC's products. Gigbond LLC specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Gigbond LLC patents that may cover such processes or compositions. Gigbond LLC recommends that each prospective user test his/her proposed application to determine its suitability for the purpose intended prior to incorporating any product or application in its manufacturing process, using these data as a general guideline.

Warranty, Limited Remedy and Limited Liability

This product will be free from defects in material and manufacture at the time of purchase. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at Gigbond's option, to replace or repair the Gigbond product or refund the purchase price of the Gigbond product. It is the user's responsibility to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. GIGBOND MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Except where prohibited by law, Gigbond will not be liable for any indirect, special, incidental or consequential loss or damage arising from this Gigbond product, regardless of the legal theory asserted.

Gigbond
116 Research Dr
Bethlehem, PA18015
<http://www.gigbond.com>
email: sales@gigbond.com
tel: 1 978 308 9786