BORN2BOND LC 3110 DB

ONE COMPONENT, SOLVENT-FREE, UV/VIS CURING ADHESIVE ENABLING DEBONDING ON DEMAND

TECHICAL DATA SHEET

November 2026



PRODUCT DESCRIPTION

Bostik Born2Bond™ LC 3110 DB is a one-component solvent-free black acrylate adhesive that cures efficiently under UV/VIS light. The product offers excellent adhesion to various substrates. A key advantage of this product is its non-destructive thermal debonding capability, enabling “debonding on demand” for temporary applications.

KEY FEATURES

→ One-component acrylate
→ Solvent-free
→ UV/VIS curing
→ Medium viscosity
→ Thixotropic
→ Good adhesion to various substrates
→ Non-destructive thermal debonding

DIRECTIONS FOR USE

The surfaces to be bonded should be free of dust, oil, grease or other contaminants in order to obtain an optimum and reproducible bond. For lightly soiled parts, wiping with isopropanol or ethanol is sufficient. Substrates that have a low surface energy (e.g. polyethylene, polypropylene, Teflon) must be physically pretreated (e.g. with atmospheric plasma or corona) to achieve sufficient adhesion.

After application, the joining of the parts should be done quickly, as some products already cure with daylight. Any contact of the adhesive with base metals, contamination with amines or reducing agents (e.g. vitamin C) should be strictly avoided, as this may lead to undesired premature curing of the product (e.g. in the metering unit).

Read material Safety Data Sheet before handling or using this product.

METHOD OF USE

- Manual: Directly from the syringe with or without dispensing cannula for more precise dispensing.
- Semi-Automated: Use of pressure-time systems for accurate volume and larger series.
- Full-Automated: fully automated robot application lines(progressive cavity pumps or screw pumps).

APPLICATIONS

Typical applications for this product are temporary bonding and “debonding on demand”.

STORAGE/SHELF LIFE

The maximum shelf life of Born2Bond™ LC 3110 DB is 6 months in unopened original packaging. The product may be stored in a closed container in a dry place at temperature between 5 °C to 10 °C. Exposure to higher or lower temperature will result in a reduction of the stated shelf life. The maximum in-device shelf life after opening the cartridge is 2 weeks at 30 °C. The cured product remains debondable for a minimum of three weeks at 40 °C after curing.

HEALTH/SAFETY

The Safety Data Sheet is available on the Bostik website and should be consulted for proper handling, cleanup and spill containment before use. Keep containers covered to minimize contamination

LIMITATIONS

This product is not recommended for use in pure oxygen and/ or oxygen-rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials. Material removed from containers may be contaminated during use. Do not return product to the original container. Bostik will not assume responsibility for product that has been contaminated

or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or customer service representative.

PRODUCT CHARACTERISTICS

Base Technology	Acrylate
Components	1K
Appearance/Color	Black, opaque
Debonding temperature	100 – 110 °C

Curing*

Feasible UV-wavelength range	365 – 405 nm
Recommended wavelength range for curing	395 – 405 nm
Curing dose at 395 nm in 0.2 mm layer	2,250 mJ/cm^2

* High-power LED lamps are recommended for curing in order to introduce the optimum dose and wavelength with the highest possible energy yield and the lowest possible temperature load on the substrate.

UNCURED PHISICAL PROPERTIES

Consistency	Medium viscosity Thixotropic
Viscosity @ 23 °C (mPa·s) @ 400 s^{-1}	1,200
Viscosity @ 23 °C (mPa·s) @ 10 s^{-1}	3,400
Density (g/cm^3)	1.01

BONDING PERFORMANCE

Lap shear strength (ISO 4587) @ 23 °C (MPa)

After Curing at 395 nm*

FR4	9.5
Polycarbonate	6.0
Polycarbonate/PA6.6	3.4
PMMA	6.7
PET	4.4

Compression shear strength @ 23 °C (MPa)

After Curing at 395 nm

Glass	6.0
Glass/Aluminum	5.1
Glass/Stainless steel	3.9

Adhesion to glass

Cross-cut test 100 µm	GT0

CONVERSIONS

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = in
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm^2 x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·mm x 0.142 = oz·in
mPa·s = cP

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