

# IQ-BOND 7292 UV

**One component, medium viscosity, medium thixotropy, epoxy-based,  
UV-curable GLOB-TOP adhesive**

## Product Description:

IQ-BOND 7292 UV is a UV-curable, solvent-free, one-component, pre-mixed, epoxy based adhesive developed as a “GLOB-TOP” material.

Typical applications include the encapsulation of wire-bonded IC's in smart card and/or other micro-electronic applications, as well as protection of moisture sensitive components in printed electronics applications.

When properly cured, IQ-BOND 7292 UV exhibits good adhesion on typical substrates used in smart card technology, such as glass-fiber reinforced epoxy laminates.

For cleaning un-cured IQ-BOND 7292 UV, the use of IQ-CLEANER 9500 is recommended.

## Uncured Product Properties:

- Appearance: Off-white
- Chemistry: Epoxy
- Odor: Faint
- Density: ~ 1,5 gr/cc
- Mix-Ratio: Not Applicable – pre-mixed single component adhesive
- Viscosity: ~ 10.000 mPa.s (Brookfield RVII – CP51 at 25°C – 1 rpm)
- Thixotropy: ~ 3,0
- Cure Speed: ~30 seconds at 120 mW/cm<sup>2</sup> for a 500 µm thick layer (UV-A)

Although not all applications require a thermal post cure, this may help to reach optimum properties. If this is not feasible, final properties after UV-cure are realized 24hrs after the UV cure process.

## Cured Product Properties:

- Temperature range of use: - 40°C to + 125°C
- Die shear strength: > 100 kg/cm<sup>2</sup>
- Shore hardness: ~ 70 shore D

Storage stability:

IQ-BOND 7292 is a material of which the chemistry is stable at room temperature for a long period of time. However, due to the high filler loading of the material, it's recommended to store IQ-BOND 7292, protected from light and moisture, at temperatures below 5°C. This will slow down the filler settling. In these conditions, the product remains stable for 6 months.

Prior to usage, during conditioning from storage temperature (< 5°C) to room temperature, it's recommended to rehomogenize IQ-BOND 7292 UV by tumbling (rolling) at about 5 – 10 rpm during 8 – 12 hrs.

It's recommended not to store IQ-BOND 7292 UV together with other adhesives such as 1 and 2-part epoxies, 2-part acrylics, polyurethanes, silicones cyanoacrylates, anaerobics, etc. Also contact with amines, amides and reducing agents should be avoided.

Attention:

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