IQ-BOND 8416 UV

UV-curable, one component, acrylic-based adhesive for optical Applications

Product Description:

IQ-BOND 8416 UV is a UV-curable, solvent-free, one-component, pre-mixed, acrylic based adhesive, developed for optical applications, where non-yellowing is required.

Typical applications include bonding of glass and metals where high adhesion strength, hardness, and humidity resistance is required.

IQ-BOND 8416 UV has been developed for optical applications where a crystal clear appearance is required, combined with non-yellowing characteristics.

For cleaning un-cured IQ-BOND 8416 UV, the use of IQ-CLEANER 9500 is recommended.

Uncured Product Properties:

- Appearance: Transparent - crystal clear
- Chemistry: Acrylic
- Odor: Faint
- Density: ~ 1,06 gr/cc
- Mix-Ratio: Not Applicable – pre-mixed single component adhesive
- Viscosity: ~ 1.400 mPa.s (Brookfield RVII – CP51 – 25°C – 20 rpm)
- Cure Speed:

Spectrum	320 – 500 nm	UV and visible light
Intensity	50 – 5000 mW/cm²	
Time	1 – 60 seconds	Depending layer thickness, and intensity of the UV equipment, as well as the UV transparency of the substrate(s)
Dose = Intensity x Time	1000 – 3000 mJ/cm²	

Remark: As with most UV-acrylics, a tacky surface may form after UV-cure, depending the layer thickness. This tacky surface may be reduced by exposing longer UV-cure time and/or by curing under a N_2 or CO_2 atmosphere, to prevent oxygen-inhibition UV-adhesive.

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Cured Product Properties:

- Temperature range of use: -40°C to + 125°C
- Die shear strength: > 100 kg/cm²
- Refractive Index, cured: ~ 1,49
- Shore hardness: ~ 83 shore D

Storage stability:

Storage is recommended between 5°C and 25°C. Freezing temperatures are not recommended for IQ-BOND 8416 UV.

Under normal fridge temperatures 5°C – 8°C, the storage stability is 12 months from date of production, when stored in the original, closed containers.

It's recommended not to store IQ-BOND 8416 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.