



# LOXEAL®

## ENGINEERING ADHESIVES

**PUT IT ON & GO TO SLEEP**



MEDICAL GRADE UV CURING ADHESIVE

## LOXEAL 30-14

### Technical Data



#### Overview:

Loxeal® UV 30-14 is a UV curing adhesive specifically developed for bonding of PMMA. It provides high mechanical strength; fast curing is achieved with led low-power lamps.

It is ideal for bonding of showcases, furniture, gifts and all PMMA structural applications.

#### Physical Properties

Composition: Acrylic resin/Methyl methacrylate  
Colour: Clear  
Viscosity (+25°C – mPas): 1,000 - 2,000  
Shelf Life: 12 months at 25°C in original unopened packaging

#### Curing Properties

To obtain the best features, clean and dry parts to bond. The polymerization depends on the UV lamp radiation, on the distance from the lamp, on the thickness of the adhesive applied, on the light permeability of the pieces to bond and on geometry of the joint.

We recommend to use UV lights able to produce UV waves between 365 nm and 420 nm at 100mW/cm<sup>2</sup>.

We recommend to cool the area irradiated with UV lamp while using thermoplastic materials.

Curing times may vary according to adhesive depth (maximum gap 2.5 mm).

#### Fixture Time

(low-power lamps 4mW/cm<sup>2</sup>)

PMMA/PMMA 2 - 4 min

#### Typical Features:

Shear strength (ISO 4587)

After 5' UV exposure : 0.4 N/mm<sup>2</sup>

After 10' UV exposure : > 4 N/mm<sup>2</sup>\*

\*Substrate failure

#### Properties of the Cured Adhesive (Typical)

Hardness (Shore D) : 70 – 80

Refractive Index : 1.44

Temperature range : -55°C/+120°C

#### Storage:

Store the material in a cool and dry place at temperature not exceeding +25°C. To avoid contaminations do not refill containers with used product. For more information on applications, storage and handling contact Loxeal Technical Service.

#### Safety and Handling:

Consult the Safety Data Sheet before use

#### Note:

The data contained herein, obtain in Loxeal laboratories, are given for information only; if specifics are required, please contact Loxeal technical department. Loxeal ensures abiding quality of supplied products according to its own specifics. Loxeal cannot assume responsibility for the results obtained by others which methods are not under Loxeal control. It is user's responsibility to determine suitability for user's purpose of any product mentioned herein. Loxeal disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from the sale or use of Loxeal products. Loxeal specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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