

## LOXEAL UV 30-20

### Description

Fast curing, high strength Ultra Violet curing adhesive. Specially designed for glass and crystal bonding in manufacturing of decorative tableware, household, furnishing accessories, bonbonnières and gift articles. For its good optical clarity is ideal for bonding of precious crystals.

### Physical properties

Composition:	methacrylate ester
Colour :	colourless
Viscosity (Brookfield 25°C–mPa.s)	:2.200 – 2.900
Specific weight (g/ml):	1,1
Curing time UV (365 nm):	6 – 10 seconds
Gap to fill:	from 0,03 mm to 1,5 mm
Flash point:	> 100°C
Shelf life :	1 year

### Curing properties

For better strength and durability we recommend to clean, degrease and dry surfaces to bond. The polymerisation UV is belonging to the intensity of the UV lamp, to the distance from the UV light source, to the bondline gap and to the light transmittance of the substrate the light shall pass through. We recommend high intensity UV light sources with minimum radiation between 365 nm and 420 nm at 100mW/cm<sup>2</sup>. curing time may vary according to adhesive gap.

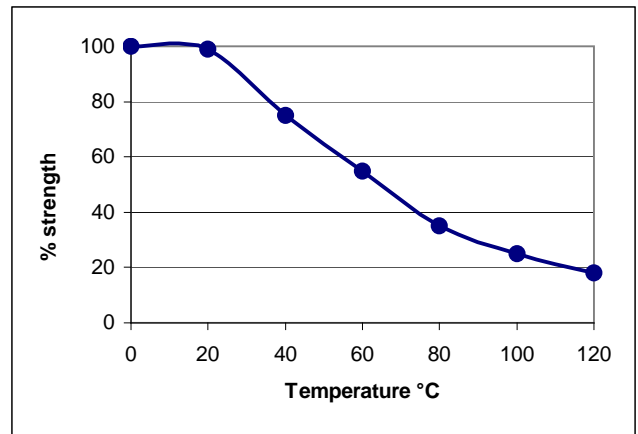
### Properties of cured adhesive

* Tensile strength (ASTM D-2095-69):	10 - 14 N/mm <sup>2</sup>
* Temperature range:	-55°C + 120°C
* Refractive index:	1,49
* Light transmittance:	> 98%
* Coefficient of thermal expansion:	85 x 10 <sup>-6</sup> mm/mm/°C
* Dielectric constant ( 25°C 1000 Hz):	4
* Dielectric strength:	10-12 KV/mm

### Environmental resistance

The graph below shows the mechanical strength vs. temperature.

Specimen steel and glass (ISO 6922).



### Chemical resistance

Aged under conditions below after 24 hours from polymerisation at indicated temperature.

Substance	°C	Resistance after 100 h	Resistance after 500 h	Resistance after 1000 h
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Alcohol	25	Excellent	Excellent	Excellent
Gasoline	25	Excellent	Excellent	good
Relative humidity 90%	40	Low	Low	Low
Refrigerant gases	25	Excellent	Excellent	Excellent

\* For information on resistance with other chemicals, contact Loxeal Technical Service

**Storage**

Keep product in a cool and dry room at +28°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 Material Safety Data Sheet

**Note**

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