



LOXEAL®

ENGINEERING ADHESIVES

PUT IT ON & GO TO SLEEP



INDUSTRIAL GRADE UV CURING ADHESIVE

LOXEAL 30-34

Technical Data



Overview:

Loxreal® UV 30-34 is a Fast Curing, High Strength Ultra Violet curing adhesive. Adhesive cures in seconds by exposure to ultraviolet light. Recommended for bonding glass to glass or glass with metal. Thanks to its exceptional transparency in thickness, it is recommended for bonding of precious crystals in the field of home furnishings and gifts.

Physical Properties

Composition: Acrylic Urethane Resins
 Colour: Clear
 Viscosity (+25°C – mPas): 2,500 – 3,500
 Specific Weight (g/ml): 1.1
 Curing time UV (365nm): 6 to 10 seconds
 Gap size to fill: 0.03mm / 1.5mm
 Flash Point: > +100°C
 Shelf Life: 12 months at 25°C in original unopened packaging

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 bond line 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/cm². Curing time may vary according to adhesive gap.

Properties Of Cured Adhesive (Typical)

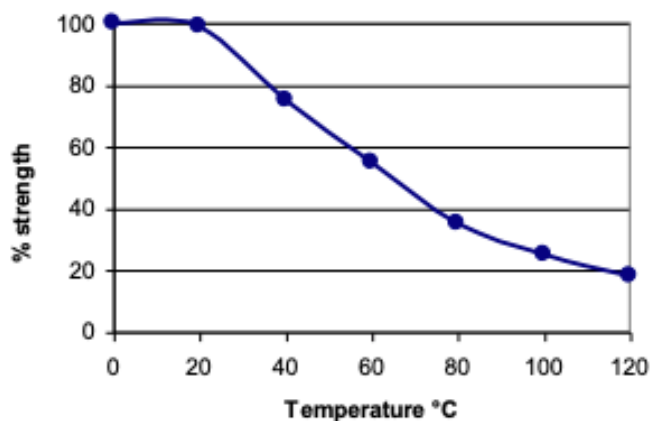
Tensile strength (ASTM D2095-69): 8– 14 N/mm²
 Tensile at break (DIN 53504): 15 – 25 N/mm²
 Hardness (Shore D): 60 – 70
 Elongation at break (DIN 53504): 80 – 120%
 Temperature range: -55°C/+120°C
 Refractive index: 1.473
 Light transmittance : > 98%
 Coefficient of thermal expansion: 85 x 10⁻⁶ mm/mm/°C
 Dielectric constant (+25°C 1000 Hz): 4
 Dielectric strength: 10 - 12 kV/mm

Storage:

We recommend to store this product in a cool and dry place at temperature not exceeding +5°C to +25°C. To avoid contaminations, do not refill containers with used products. For more information on applications, storage and handling, contact Loxreal Technical Service.

Environment Resistance

The graph below shows the mechanical strength vs. temperature
 Specimen: Steel to Glass



Chemical Resistance

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

| Substance | °C | Resistance After 100 H | Resistance After 500 H | Resistance After 1,000 H |
|-------------------|----|------------------------|------------------------|--------------------------|
| Alcohol | 25 | Excellent | Excellent | Excellent |
| Gasoline | 25 | Excellent | Excellent | Good |
| R.H 90% | 40 | Discrete | Sufficient | Low |
| Refrigerant gases | 25 | Excellent | Excellent | Excellent |

Safety and Handling:

Consult the Safety Data Sheet before use

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Note:

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