Technical Data Sheet
LOXEAL UV 30-35 Series

Description
Adhesive curing in seconds by exposure to ultraviolet light.
Recommended for bonding of glass to glass or glass to metal parts.
Designed for a long lifetime in wet environments; it provides a balanced forces transduction.
Ideal for bonding bathroom scales, door hinges for showers, aluminum and metal profiles on glass, traffic signs devices.

Physical properties
Composition : acrylic urethane resin
Colour : colourless
Viscosity at +25°C (mPa s) : 5000 - 8000
Specific weight (g/ml) : 1,10
Curing time UV (365 nm) : 5 - 10 seconds
Gap to fill : 0,03 mm / 1,5 mm
Flash point : > +100°C
Shelf life : 1 year 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/cm².
We recommend to cool the area irradiated with UV lamp while using thermoplastic materials.

Properties of cured adhesive (typical)
* Tensile strength (ASTMD2095-69) : 8 - 12 N/mm²
* Tensile strength (ASTMD2095-69) after 2 weeks +70°C/90% r. h. : 6 - 10 N/mm²
* Tensile at break (DIN 53504) : 10 - 20 N/mm²
* Elongation at break (DIN 53504) : 150 - 200 %
* Temperature range : -55°C/+120°C
* Refractive index : 1.471
* Light transmittance : > 98%
* Hardness (Shore D) : 40 - 50
* Water Absorption rate (ISO 62) : < 1.5 % (2h boiling water)

Environmental resistance
The graph below shows the mechanical strength vs. temperature.

Specimen steel to glass

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>°C</th>
<th>Resistance after 100 h</th>
<th>Resistance after 500 h</th>
<th>Resistance after 1000 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol</td>
<td>25</td>
<td>excellent</td>
<td>excellent</td>
<td>excellent</td>
</tr>
<tr>
<td>Gasoline</td>
<td>25</td>
<td>excellent</td>
<td>excellent</td>
<td>good</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>40</td>
<td>excellent</td>
<td>excellent</td>
<td>good</td>
</tr>
<tr>
<td>Refrigerant gases</td>
<td>25</td>
<td>excellent</td>
<td>excellent</td>
<td>excellent</td>
</tr>
</tbody>
</table>

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

Store the material in a cool and dry place at temperature of +5°C/+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 Material Safety Data Sheet before use.

Note

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