

Technical Data Sheet

LOXEAL UV 30-26

Description

LOXEAL UV 30-26 is a medium viscosity adhesive curing by Ultra Violet and visible light (up to 420 nm). Specially designed for bonding sun glass lenses to themselves and to safe crash plastic film. The product provides effective eye protection filtering UV radiation up to 400 nm. Loxeal UV 30-26 is also suitable for bonding glass to metal and to some thermoplastic materials.

Physical properties

Chemical type :	Acrylate and urethane methacrylate
Appearance :	pale yellow
Specific Gravity (+25°C g/ml) :	1,05
Viscosity at +25°C, Brookfield RVT	
Spindle 2 at 20 RPM, mPa s :	450 - 650
Flash Point, closed cup, °C (°F) :	>93 (195)
Refractive index at +25°C n_D :	1,478

Curing properties

To obtain the best features, clean and dry parts 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/cm². curing time may vary according to adhesive gap.

Properties of cured adhesive

Tensile strength (ASTM D638) :	16 - 22 N/mm ²
Elongation at break:	30 - 70 %
Hardness shore D (ASTM D2240) :	60 - 75

Adhesive properties

Bond properties – shear strength, cured for 30 seconds at 5 35 mW/cm ² , (Block shear, ASTM D4501) Shear Strength,		
Substrates	(N/mm ² - psi, RT)	
PVC/glass	3,00	410
ABS/glass	1,00	140
Polycarbonate/glass	1,30	180
Stainless steel/glass	2,70	370

The product is highly resistant to humidity: after 4 weeks test at 50°C and 100% humidity, the tensile strength according to ASTM D1002 shows just a small reduction.

Storage

Keep product in a cool and dry room at no more than +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

The data contained herein, obtained 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 sale or use of Loxeal products. Loxeal specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.