



LOXEAL®

ENGINEERING ADHESIVES

PUT IT ON & GO TO SLEEP



MEDICAL GRADE UV CURING ADHESIVE

LOXEAL 30-83

Technical Data



Overview:

Loxeal® UV 30-83 is a medium viscosity UV curable adhesive developed for use as a doming and coating. Tack free in seconds. Suitable for encapsulating electronic components, designed for low power curing systems. It provides a protective colourless film after exposure at high temperature with no shrinkage behaviour; its thermal resistance for short periods (thermal shock up to +270°C) allows to sustain wave soldering.

Physical Properties

Composition:	Acrylic resins
Colour :	Clear
Viscosity at + 25°C (mPa s):	1,000 – 1,600
Specific weight (g/ml):	1.09
Fixture time UV (365 nm):	3 - 4 seconds
Tack free time (100mW/cm ²):	4 - 5 seconds
Gap filling:	30 - 100 microns
Flash point:	> +100°C
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 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 the Cured Adhesive (Typical)

Tensile at break (DIN 53504):	8 - 15 N/mm ²
Elongation at break (DIN 53504):	50 - 100%
Temperature range:	-55°C/+120°C
Refractive Index :	1.484
Light transmittance:	>98%
Hardness(Shore D):	50 - 65

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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