

Description

LOXEAL UV 30-12 Series is a Ultra Violet curing adhesive developed for use on thermoplastics and where appearance is important. It provides strong flexible bondings; fast curing is achieved with low-power lamps on PC, PET, PVC, ABS, PMMA. Enhanced adhesion either to acrylics or to thermoplastics bonded to glass and metal.

Physical properties

Composition :	Urethane acrylate
Colour :	clear/colourless
Viscosity (+25°C - mPa s) :	
UV 30-12 L	150 - 200
UV 30-12	200 - 400
UV 30-12 GEL	gel
Specific weight (g/ml) :	1,10
Flash point :	> +93°C
Refractive index @ +25°C :	1,477
Shelf life : 12 months at +25°C in original unopened packaging	

Storage

We recommend to store product in a cool and dry place at temperature non 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

Polymerization features

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.

Fixture time

(low-power lamps 4mW/cm²)

on PC	< 30"
on PET	< 10"
on PMMA	< 10"

Properties of the polymerized adhesive

Shear strength ISO 4587 (N/mm²) :

on PC	> 7 N/mm ² (breaking piece)
on PET	> 4 N/mm ² (breaking piece)
on PMMA	> 3 N/mm ² (breaking piece)
Tensile strength (DIN 53504) :	15 - 25 N/mm ²
Elongation at break : (DIN 53504) :	120 - 200 %
Hardness (Shore D) :	50 - 70
Temperature range :	-55°C/+120°C

Note

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