

LOXEAL UV 30-12 Series

Description

LOXEAL UV 30-12 series is a Ultra Violet curing adhesive developed for use on thermoplastics. It provides strong high flexible bonds; a fast curing with low-power lamps is achieved (on PC, PET, PVC, ABS, PMMA). Enhanced adhesion to acrylics, also may be used for bonding thermoplastics to glass and metal. The product is ideal for application where aesthetic is important.

Physical properties

*Chemical type:	Urethane methacrylate
*Appearance:	clear, homogeneous
*Specific weight (25°C g/ml) :	1,10
*Viscosity at 25°C, Brookfield RVT	mPa s
UV 30-12	200 - 400
UV 30-12 gel	gel
*Flash Point, closed cup, °C (°F) :	>93 (195)
*Refractive index at 25°C N _r :	1,477
*Temperature Resistance:	-55 to +120°C
*Shelf life:	12 months in original containers

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 bondline gap and to the light transmittance of the substrate the light shall pass through. We recommend UV light sources with minimum radiation between 365 nm and 420 nm. Curing time may vary according to adhesive gap (max. gap fill 2,5 mm).

Fixture Time

(low-power lamps 4mW/cm²)

on PC	< 30 s
on PET	< 10 s
on PMMA	< 10 s

Properties of cured adhesive

* Tensile strength (DIN 53504):	15 - 25 N/mm ²
* Elongation at break: (DIN 53504):	120 -170 %
* Hardness shore D (ISO 868):	60-70
* Shear strength (ISO 4587):	
on PC**	> 7 N/mm ²
on PET**	> 4 N/mm ²
on PMMA	> 3 N/mm ²

(**substrate failure was observed)

Storage

Keep product in a cool and dry room at +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

Note

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