

Krylex KU5961 UV Curable Adhesive

Product Description

KRYLEX KU5961 is a fast curing, high-clarity light cure adhesive formulated for strong adhesion to many substrates. It has a Newtonian viscosity that allows for easy automatic dispensing. The product has blue fluorescence under a black light, facilitating easy onpart inspection of bond areas. KRYLEX KU5961 is solvent free and has excellent stability.

Product Features

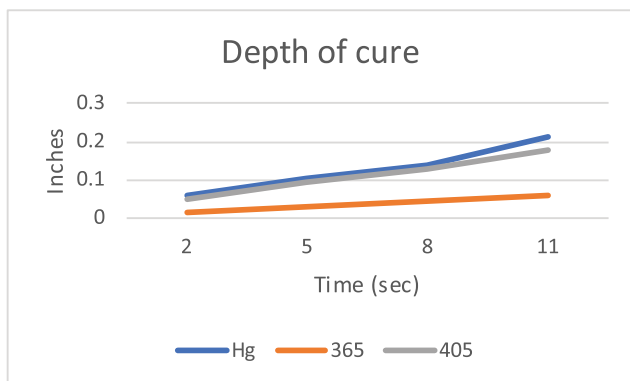
- Low Viscosity
- Instant cure with UV light
- ISO10993 approved
- Excellent multi-substrate adhesion
- Transparent color
- Solvent Free, Urethane Acrylate

Typical Applications

- Needle bonding
- Medical potting and doming
- General assembly

Curing Notes

- Instant UV cure



*All lightshad an intensity of 100mw/cm²

Typical Uncured Properties

PROPERTY	VALUE	TEST METHOD
Color	Transparent	N/A
Viscosity (cps)	100	Brookfield DV2T
Specific Gravity	1.03	ASTMD1875
Shelf Life (mins)	6 M	N/A

*minimum amount of time after adhesive is dispensed for building green strength (handling strength, 50 psi)

Typical Cured Properties

PROPERTY	VALUE	TEST METHOD
Tensile Modulus, MPa	682	ASTM D638
Elongation, %	7	ASTM D638
TensileStrength, N/mm ²	21	ASTM D635
Durometer Hardness Shore D	75	ASTM D2240
Water Absorption,24hr 25°C, %	4.0	ASTMD570
Water Absorption 2hr 100°C, %	1.6	ASTMD570
Fixture Time Glass/Glass	<3 sec.	CSTM 1002
Blue Fluorescence under black light	Yes	CSTM 1003

Adhesion Guide

Substrate	Recommendation
PC polycarbonate	O
PMMA polymethyl methacrylate	O
PVC polyvinyl chloride	O
PET polyethylene terephthalate	O
PS polystyrene	O
ABS acrylonitrile-butadiene-styrene	O
TPU Thermoplastic Polyurithane	O
PE polyethylene	ST
PP polypropylene	ST
Aluminum	O
Stainless Steel	O
Glass	O

O : Recommended Adhesive L: limited Applications ST: Surface Treatment such as Corona, Plasma, etc.

Curing Guide

Fixture time is defined as the time to develop a shear strength of 0.1 N/mm² (14.5psi) between two glass slides.

- Black light, 365nm, 6mW/cm² o <3second

Tack-free time is defined as the time required to produce a tack free surface on the material.

- UVA Lamp, 100mW/cm²
 - o 10 seconds

Directions for Curing

1. KU5961 is sensitive to moisture. Store in moisture resistant container.
2. Do not exceed temperatures above 120°C and pressure above 60 psi during dispense. Use only dry air or Nitrogen during dispense
3. All bond surfaces should be clean and free from grease, mold release or other contaminants.
4. Cure speed is dependent on the heat and humidity levels, the moisture transmission of substrate and required depth of cure.
5. Bonded parts should be allowed to cool before testing or subjecting to any service loads.
6. Plastic grades and part design should be considered to avoid cracking and improve adhesion.
7. Avoid over-heating or applying excess pressure during dispense process.

Handling and Safety

For maximum shelf life, keep containers sealed and store in dry conditions. Keep out of the reach of children. Uncured adhesive contains free isocyanates and it's very important to follow the safety and handling guidelines. Use heat resistant gloves for handling hot syringes. Appropriate eye wear and protective equipment is required during the usage of uncured material. Refer to SDS for further information.

Notes

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