# TECHNICAL DATA SHEET
## Krystal 3000 UV Adhesive

**Product Description**
Krystal UV 3000 is a photo-curing adhesive designed for common plastic (including ABS, HIPS, PS, PC, PVC, and acrylic) bonding. The viscosity of this product is extremely low while the permeability is excellent. This resin is colourless and transparent in thin film bonding. Under either UV or visible lights, this adhesive can cure rapidly and demonstrates excellent adhesion strength. In many applications, cured product shows a significantly better adhesion strength than original materials, such as anti-ultraviolet acrylic and PC surfaces. Through the excellent performance, this resin proves itself to be a considerably reliable photo-curing adhesive.

**Characteristics**
- Ultra-clear
- Good thermal and shock resistance
- Excellent bonding strength to plastics and glass
- Good weather resistance

**Physical Properties (Uncured)**

| Properties | Specification |
|---|---|
| Chemical Properties | Acrylic Resin |
| Appearance | Colourless |
| Viscosity @ 25$^0$C (S14 100 rpm) | 5 - 15 |
| Solvent Content, % | 0 |
| Heavy Metal Content, % | 0 |

**Typical properties of cured material**

| Properties | Specification |
|---|---|
| Hardness, Shore D | 64 |
| Refractive Index | 1.4769 |
| Tensile Strength, Kg/cm$^2$ (Acrylic to Acrylic) | 108 |
| Elongation @ 25$^0$C, % | 228 |
| Glass Transition Temp, $^0$C | -10 |
| Temperature Range $^0$C | -40 to 100 |

**Cure Schedule**



VITROCHEM TECHNOLOGY

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| Properties | Specification |
|---|---|
| UV Light Intensity | 1500 – 3000 mj/cm$^2$ |
| Wavelength | 365nm |
| Recommended Cure Time, seconds | 10 - 15 |

**Storage Condition**
Store original container in a cool and dry area where it is not exposed to high heat or direct sunlight. Advise to store UV adhesive below 25$^0$C.

**Packaging Sizes**
50ML Plastic Anti-UV Bottle
1 Liter Plastic Anti -UV Bottle

**Shelf Life**
This product has 1year shelf life when stored in original, unopened container between 15-25 ºC, away from direct light sources.

**Handling Precautions**
Some findings indicate a lack of potential for carcinogenicity with the compositions of by long term recurrent application to the skin. However, contact with skin is likely to produce mild transient reddening. It is important to remove adhesive from skin with soap and water thoroughly. Krystal 1000 is of moderate acute toxicity by swallowing. If swallowed, induce vomiting at once and call a physician. Avoid contact with eyes. In case of contact, flush with water for at least 15 minutes and get medical attention immediately. For specific information on this product, consult the Material Safety Data Sheet.