



## Technical Data Sheet

**Product Name:** Polyurethane Anti-yellowing Antioxidant UVK-CLV

### Typical Properties:

Appearance	Light yellow liquid
Density (g/cm <sup>3</sup> , 25°C)	1.092
Viscosity (mPa.s, 25°C)	1000±500
Odor	With slight special odor

**Solubility:** It is easily soluble in general polyurethane materials such as various polyether polyols, polyester polyols and plasticizers.

### Features & Advantage:

It has excellent and efficient comprehensive effect of resisting high temperature oxidation and yellowing. By comprehensively reducing the photodegradation, oxidation and other damages caused by light, oxygen, heat and other external factors on polyurethane materials, the yellowing and degradation of polyurethane can be delayed, and the service life of polyurethane can be improved.

- High molecular mass of monomer, stable chemical structure and good compatibility. It will not migrate from polyurethane materials at high and low temperatures.
- Low dosage, but excellent anti-oxidation and anti yellowing effect.
- Light color, which will not affect the coloring of polyurethane
- It is liquid under normal temperature, no need heating and melting, and is easy to use.

UVK-CLV further strengthens the resistance of polyester polyurethane to yellowing caused by ultraviolet light. It is recommended to be used for light color and transparent polyurethane products with strict requirements on product appearance, such as light color shoe upper glue, shoe materials, transparent PU gel, PU handicrafts, etc.

### User's Guide:

- UVK-CLV can be added to any component of the two-component polyurethane. Generally, it is recommended to be added into the component of polyol and stir it well; Add it before synthesis of prepolymer can prevent or reduce the yellowing of prepolymer; Although we think it is safe to add it into the isocyanate component, it is still recommended to confirm it by storage stability test before use due to the active property of isocyanate.
- The dosage depends on the situation, and the recommended dosage is 0.1-0.8%.
- Long term storage at low temperature ( $\leq 12\text{ }^{\circ}\text{C}$ ) may lead to crystallization, which shall be used after the whole barrel is heated, dissolved and mixed uniformly at  $\leq 100\text{ }^{\circ}\text{C}$ .

### Handling & Storage:

Product should be stored in a cool, dry environment away from sunlight, excessive heat and rain.

**Package:** 25kg/200kg in HDPE drum

**Shelf Life:** The unopened shelf life is 18 months from the date of manufacture. Please note that it must be sealed.

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