

## Trust 6139

### Fluorine-modified low refractive index UV resin

#### INTRODUCTION

Application: T-6139 resin is a two-functional fluorine-modified acrylate UV resin with low refractive index and wide adhesion adaptability. Coatings commonly used to protect modern multi-layer LCDs are PET (polyethylene terephthalate) or TAC (triacetyl cellulose) films. It cures quickly, has good surface dryness, and is suitable for LED low-energy curing. The paint film is soft and can be well miscible with various resins and monomers.

#### TYPICAL VALUES

|                         |             |
|-------------------------|-------------|
| Tg(°C)                  | -7          |
| MW(GPC)                 | 4100        |
| Elongation at Break%    | 40          |
| Colour, Gardner         | 2           |
| Acid value,mg KOH/g     | max. 2      |
| Viscosity at 25°C,mPa.s | 15000-25000 |
| Specific Gravity        | 1.08        |
| Effective content       | 100%        |

#### APPLICATION

**UV glue:** Due to its special high fluorine-containing structure, T-6139 resin has good leveling, good heat resistance, low refractive index, weather resistance, chemical resistance, and high corrosion resistance. It has comprehensive advantages that ordinary light-curing optical fiber coating resin cannot match, and is an optical fiber coating product with ideal comprehensive performance.

**UV coating:** T-6139 resin is recommended as the main resin for UV coatings, inks, and adhesives in the field of functional films and optical materials with low refractive index requirements, such as special optical fiber coatings, anti-reflective coatings, optical anti-reflective coatings, etc. for military and medical purposes.

#### INTERMISCIBILITY

**Monomer:** Miscible with various conventional monomers. The resin itself has a low viscosity, so try to reduce the amount of monomer used and avoid increasing the gloss.

**Solvent:** It is miscible with esters, ketones, or aromatic hydrocarbon solvents. It cannot be dissolved in a single alcohol solvent, but is soluble in mixed solvents containing alcohols and ethers.

**Polymer:** It can be well miscible with polyester, epoxy, polyurethane, phosphate ester, and acrylate to meet the needs of formula formulation.