

## HM-103

### High refractive index UV monomer

#### INTRODUCTION

Application: HM-103 is a difunctional acrylic ester UV monomer with high refractive index, high adhesion, low viscosity and good water resistance. It is used in various optical display film materials with good wetting and leveling properties and soft paint film.

#### TYPICAL VALUES

|                                     |        |
|-------------------------------------|--------|
| Tg(°C)                              | 50     |
| MW(GPC)                             | 270    |
| Elongation at Break%                | --     |
| Colour, Gardner                     | 2      |
| Acid value,mg KOH/g                 | max. 1 |
| Viscosity at 25°C,mPa.s             | 25     |
| Refractive index(nD <sup>25</sup> ) | 1.605  |
| Effective content                   | 100%   |

#### APPLICATION

**UV coating:** Applied in optical fiber coatings, it is the main diluent monomer for display films with high refractive index requirements. The paint film is soft, water-resistant and has good adhesion!

**UV adhesive :** Optical lens, bonding of display materials, oxygen-free curing of coating, high transmittance, high refractive index.

#### INTERMISCIBILITY

**Monomer :** Has good solubility with various monomers.

**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.