

HM-101

High refractive index UV monomer

INTRODUCTION

Application: HM-101 is a two-functional acrylate UV monomer with high refractive properties, high adhesion, low viscosity, and good water resistance. Used in various optical display film materials, with good wetting and leveling properties and soft paint film.

TYPICAL VALUES

Tg(°C)	15
MW(GPC)	215
Elongation at Break%	50
Colour, Gardner	2
Acid value,mg KOH/g	max. 1
Viscosity at 25°C,mPa.s	15
Refractive index(nD ²⁵)	1.565
Effective content	100%

APPLICATION

UV coating: It is used in optical fiber coatings and is the main diluting monomer required to show the high refractive index of the film. The paint film is soft, has good water resistance and good adhesion.

UV adhesive : Optical lenses, bonding of display materials, oxygen-free curing of coatings, high light 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.