

LM-501

Low refractive index UV monomer

INTRODUCTION

Application: LM-501 is a monofunctional UV monomer with low refractive index, good adhesion to various substrates, and low viscosity. Used in various types of optical fiber coatings and anti-reflection films, with good wetting and leveling properties and soft paint films.

TYPICAL VALUES

Tg(°C)	35
MW(GPC)	160
Elongation at Break%	---
Colour, Gardner	2
Acid value,mg KOH/g	max. 1
Viscosity at 25°C,mPa.s	10
Refractive index(nD ²⁵)	1.395
Effective content	100%

APPLICATION

UV coating: It is the main diluting monomer used in low refractive index requirements such as optical fiber coatings and anti-glare films. The paint film is soft, has good water resistance and good adhesion!

UV adhesive: Bonding of optical display materials, oxygen-free curing of coatings, high transmittance, low 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.