

Trust 6140

Fluorine-modified low refractive index UV resin

INTRODUCTION

Application: T-6140 resin is a multifunctional fluorine-modified acrylate UV resin with low refractive index, ultra-low viscosity and high crosslinking degree. It has wide adhesion adaptability, fast curing, good surface drying, and is suitable for LED low-energy curing. It is used in industries such as optical display, optical fiber coating, and solar anti-reflection layer to improve light efficiency.

TYPICAL VALUES

Tg(°C)	65
MW(GPC)	1100
Elongation at Break%	25
Colour, Gardner	2
Acid value,mg KOH/g	max. 2
Viscosity at 25℃,mPa.s	<50
Refractive Index	1.405
Specific Gravity	1.20
Effective content	100%

APPLICATION

UV Adhesive: Due to its fluorine-containing structure, T-6140 resin has the characteristics of low surface tension, good wetting and leveling, good heat resistance, low refractive index, etc. It also has excellent performance in weather resistance, chemical resistance, high corrosion resistance, etc.

UV coating: T-6140 resin is recommended for functional films with low refractive index requirements and main resins used in the field of optical materials. It is suitable for special optical fiber coatings such as nanoimprinting and medical treatment, anti-reflection coatings, optical anti-reflection films, etc.

INTERMISCIBILITY

Monomer: It is miscible with all kinds of conventional monomers. The resin itself has a low viscosity. Try to reduce the amount of monomer used to 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 a mixed solvent containing alcohol and ether.

Polymer: It is well compatible with polyester, epoxy, polyurethane, phosphate and acrylate to meet the needs of formulation.

packing: 5kg and 20kg plastic drums

More detailed application references and MSDS are available upon request.....

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技术资料