

Trust 6137

Low-refractive-index modified UV resin

特殊改性低折射率 UV 树脂

INTRODUCTION

Applications: T-6137 resin is a special fluorinated modified acrylate UV resin with low refractive index and low-energy rapid curing. It is suitable for optical film surface coatings, offering high light transmittance and excellent hardness and chemical resistance. Glass surface hardness > 3H (Mitsubishi pencil), PET surface hardness > 2H. It has good application adaptability, excellent chemical resistance, low dielectric index, and high hydrophobicity.

TYPICAL VALUES

Tg(°C)	85
MW(GPC)	1600
Elongation at Break%	30
Colour, Gardner	2
Acid value,mg KOH/g	max. 2
Viscosity at 25°C, mPa.s	1000-3000
Refractive Index	1.370
Specific Gravity	1.18
Effective content	100%

APPLICATION

UV Coating: T-6137 resin is recommended for waveguide diffraction coatings requiring low refractive index, anti-glare and anti-reflection precision optical lenses, special fiber optic coatings for military and medical applications, anti-reflection coatings, optical anti-reflection films, and electronic thin-film hardening protective coatings.

INTERMISCIBILITY

Monomer: Miscible with various conventional monomers. LM501 low-refractive-index monomer is recommended to avoid affecting optical properties.

Solvent: Miscible with esters, ketones, or aromatic solvents; insoluble in single alcohol solvents; soluble in mixed solvents containing alcohols and ethers.

Polymer: Highly compatible with polyesters, epoxy resins, polyurethanes, phosphate esters, and acrylates to meet formulation needs.

packing: 5kg plastic drum, 20kg plastic drum

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