Trust 6138-2

Low-refractive-index modified UV resin

特殊改性低折射率 UV 树脂

INTRODUTION

Applications: T-6138-2 resin is a specially modified acrylate UV resin with low refractive index and wide adhesion adaptability. It has low viscosity and high hardness, exhibiting excellent hardness and abrasion resistance at coating thicknesses below 1μm and in the nanometer range. Glass surface hardness > 6H (Mitsubishi pencil), PET surface hardness > 5H. It has good application adaptability, excellent chemical resistance, low dielectric index, and high hydrophobicity.

TYPICAL VALUES

Tg(℃)	85
MW(GPC)	270
Elongation at Break%	10
Colour, Gardner	2
Acid value,mg KOH/g	max. 2
Viscosity at 25℃,mPa.s	20-50
Refractive Index	1.380
Specific Gravity	1.18
Effective content	100%

APPLICATION

UV Coating:

T-6138-2 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. The resin itself has low viscosity; therefore, the amount of monomer used should be minimized 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 requirements.

***packing*: 5kg plastic bucket , 20kg plastic bucket**

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