

T-6134NS

Nano-silica solution

Acrylate Low Refractive Index UV Resin

INTRODUCTION

T-6134NS is a fluorine-free low refractive index UV resin. By coupling multifunctional acrylate with specially structured hollow silica, it achieves a lower refractive index while maintaining high transparency and low haze. It offers low viscosity, good processability, fast curing ability, and high hardness. It is used in anti-reflective coatings, anti-glare films, optical fiber coating, adhesive bonding, and various optical display film materials and nano-coatings.

TYPICAL VALUES

Appearance	Translucent liquid
Nanosilica(wt%)	50-60
Viscosity at 25℃, mPa.s	2000-3000
Effective content	100%
Refractive index(nD ₂₅)	1.345
Relative Density	1.05-1.15
Nanoparticle Size	50nm

APPLICATION

UV Coatings: Used in nano-coatings for optical films – low refractive index, high hardness, wear and scratch resistance. It is recommended to mix with low-functional acrylates to reduce shrinkage and improve flexibility and adhesion.

INTERMISCIBILITY

Monomers: Miscible with various conventional monomers.

Solvents: Miscible with esters, ketones, and aromatic solvents.

Polymers: Compatible with polyester, epoxy, polyurethane, phosphate esters, and acrylates to meet formulation requirements.

packing: 20 kg plastic drum, 200 kg plastic drum

More detailed application information and MSDS are available on request