

T- 6125NS

Polyurethane-acrylate UV resin with low refractive index

INTRODUCTION

Application: T-6125NS is a low-refractive-index optical UV resin containing nano fillers. It uses acrylate free-radical curing, has an extremely low refractive index (RI: 1.25), and offers good re-adhesion and recoatability. It cures rapidly with good surface drying and has high compatibility with acrylate resins and monomers.

TYPICAL VALUES

Tg(°C)	70
MW(GPC)	650
Elongation at Break%	20
Acid value,mg KOH/g	max. 1
Refractive Index	1.25
Viscosity at 25 °C, mPa.s	100-300
Specific Gravity	1.05
Effective content	50-55%

APPLICATION

UV coating: T-6125NS resin is used in AR/VR display films. It is suitable for submicron and nanoscale coatings with low film thickness, while maintaining extremely low haze and high light transmittance. It is fluorine-free, can bond multi-layer film laminates, and has broad process adaptability.

INTERMISCIBILITY

Monomer: It is miscible with various acrylate UV monomers. Minimize the amount of monomer used to avoid increasing the refractive index.

Solvent: It is miscible with ester, ketone, or aromatic solvents. It is not soluble in a single alcohol solvent, but is soluble in mixed solvents containing alcohols and ethers.

packing: 100g, 5kg , 20kg plastic drums.

More detailed application reference materials and MSDS are available upon request.