

NM-1345

Nano-silica solution

丙烯酸酯低折射率纳米溶胶

INTRODUCTION

Application: NM-1345 is a fluorine-free, low-refractive-index UV nanosol. By coupling multifunctional acrylates with specially engineered hollow-structured silica, it achieves an even lower refractive index while maintaining high transparency and low haze. It features low viscosity, excellent application properties, fast curing capability, and high hardness. It is suitable for anti-reflective coatings, film anti-reflection, optical fiber coating, adhesion, and various optical display film materials and nanocoatings.

TYPICAL VALUES

Appearance	translucent liquid
Nanosilica(wt%)	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: Optical film nanocoatings with low refractive index, high hardness, wear resistance, and scratch resistance. It is recommended to combine with low-functionality acrylates to reduce shrinkage and improve toughness and adhesion.

INTERMISCIBILITY

Monomers: Miscible with various conventional monomers.

Solvents: Miscible with ester, ketone, or aromatic hydrocarbon solvents.

Polymers: Highly compatible with polyesters, epoxies, polyurethanes, phosphate esters, and acrylates to meet the needs of formulation adjustment.

packing: 5kg 20kg plastic bucket

More detailed application references and MSDS are available upon request.

