

N-1180-50

Nano-silica solution

纳米二氧化硅溶液

INTRODUCTION

Applications: N-1180-50 is a nano-sized hollow silica solution. Its unique hollow structure allows for a lower refractive index, and the nano-sized dispersed particle size gives the coating excellent transparency (>95%). When used with a low-refractive-index base resin, it is applied to various optical display film materials such as anti-reflective coatings, anti-reflective films, fiber optic coatings, and adhesive couplings, as well as as a nano-coating additive.

TYPICAL VALUES

Appearance	translucent liquid
Nanosilica(wt%)	50
Viscosity at 25℃,mPa.s	50-150
Solvent PGME(wt%)	45-50
Refractive index(nD ²⁵)	1.18
Relative Density	0.85-0.95
Nanoparticle Size	40-50nm

INTERMISCIBILITY

Monomer: Miscible with various conventional monomers.

Solvent: Miscible with esters, ketones, or aromatic solvents.

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

packing: 1kg plastic bucket, 20kg plastic bucket

More detailed application references and MSDS are available upon request.

APPLICATION

UV coating: Optical film nano-coating, low refractive index! Possesses the physical, optical, and chemical properties of silica.