

N-1715

Nano Zirconia Solution

INTRODUCTION

Application: N-1715 zirconium solution is a dispersion of high-content nano-level zirconium oxide, with good transparency, high refractive index, good storage stability, hydrolysis resistance, etc. It is used in various optical display film materials such as brightness enhancement film (BEF), anti-reflection film (AR), anti-glare film (AG), and flexible display substrate (OLED/QLED). It has good wetting and leveling properties and soft paint film.

TYPICAL VALUES

Tg(°C)	25
MW(GPC)	280
Elongation at Break%	30
Colour, Gardner	2
Acid value,mg KOH/g	max. 1
Viscosity at 25℃,mPa.s	9500
Refractive index(nD ²⁵)	1.715
Relative Density	1.42
Effective content	100%

APPLICATION

UV coating: Applied to optical fiber coating, the main film-forming material for display film with high refractive index requirements. The paint film is soft, water-resistant and has good adhesion!

UV adhesive: Optical lens, bonding of display materials, packaging of optical components. Coating oxygen-free curing, high light transmittance, high refractive index.

INTERMISCIBILITY

Monomer: miscible with all kinds of conventional monomers.

Solvent: miscible with esters, ketones, or aromatic solvents, insoluble in single alcohol solvents, soluble in mixed solvents containing alcohols and ethers.

Polymer: well soluble with polyesters, epoxies, polyurethanes, phosphates, and acrylates to meet the needs of formulation.

packing: 20kg plastic drum, 200kg iron drum