

L-6410 Scratch-resistant 4-functional UV Polyurethane

Description

L-6410 is a specially modified 4-functional polyurethane acrylate resin with high reactive activity. The product has low shrinkage, good adhesion, good resistance to hand perspiration cosmetics, and solvent thinning resistance. It provides excellent adhesion to various plastic substrates, including PC, ABS, PMMA, and TAC, and can achieve good adhesion even when used alone. The resin also shows good adhesion to paper, plastics, and metals. It is suitable as a base resin for UV topcoats requiring high abrasion resistance and for vacuum-metallized UV coatings.

Technical Data

Appearance	Colorless transparent liquid
Viscosity (25°C, CPS)	2,500 - 6,000
Color Value (Gardner)	≤ 1
UV Content (%)	75±2
Density (25°C, g/cm³)	1.1±0.1
Acid Value (mg KOH/g)	≤ 2
Refractive Index	1.476
Functional Group	4

Product Features

Excellent water resistance, as well as resistance to hand sweat and cosmetics
Good adhesion to various plastics, metals and coatings
High color development with excellent compatibility with colorants
Low shrinkage, high curing rate
Easy to achieve matte finish, with high scratch and wear resistance
Suitable as a base resin for monocoat UV coatings, allowing recoating

Applications

High-performance UV topcoats; UV screen-printing inks; film coatings, and monocoat UV color coatings, etc.

Storage Conditions

To prevent the product from polymerization and gelling, please keep it sealed and away from heat and light. Safe storage time is 6 months at room temperature(25°C) and under ventilation.
This product will be packed into 20KG / 25KG / 200KG / barrel

Tips: L-6410 provides easy matting, high scratch resistance, and good water-boil resistance, with excellent leveling.

Note: Technical data represents typical values only. In view of the differences in formulas, production process, conditions, all the above statements must be adjusted according to the actual situation, our company does not make any promises. Our company reserves the right to reform its products without prior notice of any changes.