

## L-6380F High Anti-scratch Matte UV Polyurethane Resin

### Description

**L-6380F** is a specially modified polyurethane acrylate resin formulated as a matte UV-curable coating. It delivers a stable low-gloss finish (2–5°) without haze, maintaining consistent appearance even after prolonged baking or at elevated temperatures. The resin features nano-scale particle fineness and provides excellent transparency, smooth leveling, and uniform edge coverage. It can be applied in thin or multiple layers without whitening, allows recoating, and exhibits excellent substrate adhesion, good elongation, and RCA > 300 cycles.

### Technical Data

Appearance	Slightly turbid, semi-transparent liquid
Viscosity (25°C, CPS)	10,000 - 25,000
Color Value (Gardner)	≤ 1
UV Content (%)	70±2
Density (25°C, g/cm³)	1.1±0.1
Acid Value (mg KOH/g)	≤ 12
Refractive Index	1.473
Functional Group	3

### Product Features

Gloss 2-5°, no floating, stable gloss

Good leveling, good adhesion,

Good chemical resistance

Defoaming function in thick UV coating, and can improve the yield rate.

### Applications

UV matte varnishes, UV plastic coatings, UV screen printing varnishes, high-build UV coatings, matte scratch-resistant coatings, etc.

### Storage Conditions

To prevent premature polymerization due to the high reactivity of this product, keep it tightly sealed and store away from heat sources and direct sunlight. It is recommended to maintain storage temperature below 30 °C. Unused product should be promptly resealed and must not be left open. Under ventilated conditions at 25 °C, the product has a safe storage period of 6 months. Available packaging: 20 kg/200 kg per drum.

**Tips: L-6380F offers excellent matte appearance, soft-touch feel, and high scratch resistance. It is a solvent-containing, halogen-free formulation.**

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.