

L-8469 Steel Wool-Resistant Dual-Cure UV Resin

Description

L-8469 is a specially modified UV polyurethane resin containing hydroxyl groups, which can react with isocyanates to form dual-cure coatings. It provides good adhesion to plastic substrates such as PC, ABS, and PET. L-8469 can be used both as a modifier for UV coatings and as the primary resin in dual-cure UV coating formulations.

Technical Data

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| Appearance | Translucent Liquid |
| Viscosity (25°C, CPS) | 800 - 1,500 |
| UV Content (%) | 82 ± 2% |
| Density (g/cm ³ , 25°C) | 1.03 ± 0.05 |
| Acid Value (mg KOH/g) | ≤ 5 |
| OH Value (solid content) | 60 mg KOH/g |

Product Features

Fast surface drying, suitable for vacuum forming

Low shrinkage, high hardness

Good resistance to steel wool

Applications

Dual-cure varnishes for various plastics; dual-cure UV inks; and dual-cure UV resins for hardness

Curing Process

Coating → Pre-bake at 100–120 °C for 3 minutes to achieve surface dryness → Thermoforming → UV curing (800–1200 mJ/cm²) → Finished product performance testing

Precautions

1. Ensure that the UV adhesive layer receives sufficient UV energy to achieve complete curing; inadequate irradiation may compromise the coating performance.
2. Do not pour leftover adhesive back into the original container. Store the remaining material in a sealed, light-proof condition at room temperature.

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 / 25kg / 200 kg per drum

Tips: L-8469 features rapid surface curing, excellent thermoformability, and superior resistance to abrasion from steel wool.

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.