Lencolo®
蓝柯路

TDS

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L-6367-5 Anti-yellowing Excimer UV Polyurethane Resin

Description

L-6367-5 is a trifunctional UV polyurethane modified with a polycarbonate backbone, offering excellent weathering and yellowing resistance. It is primarily used in excimer UV skin-feel coatings requiring high yellowing and weathering resistance. On white substrates cured at 500 mJ/cm² with repeated exposures, the resin exhibits a $\Delta b \leq 0.2$. When activated under short-wavelength excimer UV spectra (172 nm, 222 nm, 254 nm), it forms a fine, soft, elastic matte finish with excellent scratch resistance.

Technical Data

Appearance	Clear transparent liquid
Viscosity (25ºC, CPS)	5,500-6,500
UV Content (%)	100
Density (25ºC,g/cm³)	1.03±0.05
Acid Value (mg KOH/g)	≤1
Refractive Index	1.477
Shore Hardness	50D
Tensile Strength (MPa)(ASTM D882)	2.3
Elongation at Break (%)(ASTM D882)	4.3
Functional Group	3

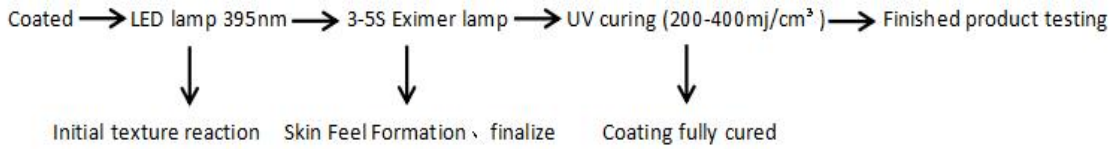
Test Formula (254nm band)

L-6367-5	70
Lencolo 5005（BP）	2
Lencolo 5029（MBF）	0.5
Lencolo 5007（TPO）	0.1
L-61016（9EOTM）	12
L-61024（HDDA）	10
Matte Powder	5
Lencolo 5003B	0.4
Total	100

Product Features

High yellowing resistance
Elastic, soft skin feel
Good recoating compatibility
Exccellent scratch resistance

Construction Process



Applications

For coating excimer UV skin-feel finishes on surfaces such as PU, ABS, PC, PET, various plastic films, leather, paper, and wood.

Precaution & Storage

1. Ensure that the UV coating absorbs sufficient UV energy to achieve complete curing; insufficient curing may affect coating performance.
2.Do not pour unused material back into the original container. 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. Recommended storage temperature: ≤30°C. Unused portions should be sealed promptly and not left open. Under room temperature (25°C) and ventilated conditions, the safe shelf life is 6 months.
Packaging: 25KG / 200KG per drum

Tips:L-6367-5 offers excellent compatibility, high softness and elasticity, and fast curing speed. The use of mono- and difunctional monomers allows easy adjustment of wrinkle formation speed and size.