

**LUMICRYL® 2382
UV/EB CURABLE RESIN
FOR ENERGY CURABLE COATINGS**

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THE EDGE OF INNOVATION

GENERAL DESCRIPTION

Lumicryl® 2382 is an UV/EB curable solvent-borne acrylated acrylic macromer for formulating dual cure protective coatings and inks for application onto film, laminate, plastic, metal, aluminum, wood, paper or other substrates.

Lumicryl® 2382 will physically dry to touch to non-blocking film after the solvent is removed. The dried, but uncured coating remains in a thermoplastic state and can undergo intermediate processing such as thermoforming (IMD, FIM), transfer laminating, thermal transfer and re-coating, prior to UV/EB curing.

Lumicryl® 2382 can be used to formulate clear, pigmented or highly filled systems. UV/EB cured coatings will have excellent steel wool, abrasion and chemical resistance.

TYPICAL PROPERTIES*

Solids	62-70 %
Solvents	n-butyl acetate 30-38 %
Viscosity	Z – Z ₆
Specific Gravity	1.0 – 1.1 g/cm ³

* Not to be used for specification purposes

APPLICATION INFORMATION

Lumicryl® 2382 may be used with other UV-curable oligomers to tailor properties of the final cured coatings or inks. However, addition of significant fractions of low viscosity monomers or resins will affect physically drying characteristics of the uncured film.

Isocyanates can be used to achieve a higher degree of crosslinking.

Formulations can be applied using conventional application equipment such as screen, flexo gravure, roll, slot die and spray. At the UV cure stage elevated temperatures are recommended (at least 50°C) to allow higher molecular mobility.

REGULATORY LISTINGS

The components in this material are either listed or exempt from listing due to polymer exemption criteria for the following chemical listing inventories: AICS (Australia), DSL (Canada), NZIoC (New Zealand), TSCA (United States).

One or more components of this product are not REACH registered. Import quantities may be subject to limitation.

PACKAGING (NET WEIGHT)

40 lb. / 18.1 kg in steel pail

400 lb. / 181.4 kg in steel drum

PRODUCT AVAILABILITY

This product is available and may require lead time.

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STORAGE AND HANDLING

Store unopened containers of Lumicryl® 2382 at or below 25°C (77°F) away from direct sunlight, ignition sources, and heat sources. Maintain an adequate air headspace in the product container and do not blanket or mix with inert gas as this may render the inhibitor ineffective. Use within 6 months of delivery. Properly stored material may have a longer useful shelf life, but Estron's warranty period is 6 months from date of shipment. Unexpected or uncontrolled temperature excursions during shipping, transit storage, and final storage may adversely affect useful shelf life and is beyond the manufacturer's control or responsibility.

CONTACT INFORMATION

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TDS Revised by: D. Smith

TDS Approved by: F. Allen