

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

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## GENERAL DESCRIPTION

Lumicryl® 2382 is a solvent-borne acrylated acrylic macromer suitable for formulating UV curable coatings and inks for application on film, laminate, plastic, metal, wood, paper or other substrates. When formulated with appropriate photoinitiators and properly cured, coatings based on Lumicryl® 2382 have excellent abrasion and chemical resistance. Lumicryl® 2382 can be used to formulate clear, pigmented or highly filled systems for application using conventional application equipment such as roller, spray, flexo, gravure or screen.

Lumicryl® 2382 will dry to a tack-free, dry-to-touch, non-blocking film after the solvent is removed. The dried uncured coating remains in a thermoplastic state and can undergo intermediate processing such as stamping, thermoforming, transfer laminating, thermal transfer, sanding, and re-coating prior to UV curing. Curing the photoinitiated coating or ink by exposure to UV substantially increases the chemical and scratch resistance of the material.

## TYPICAL PROPERTIES\*

Solids	62-68 %
Solvents	n-butyl acetate 32-38 %
Viscosity	Z <sub>1</sub> – Z <sub>6</sub>
Specific Gravity	1.0 – 1.1 g/cm <sup>3</sup>

\* Not to be used for specification purposes

## APPLICATION INFORMATION

Coatings and inks utilizing Lumicryl® 2382 may be formulated with common photoinitiators as appropriate to the specific formulation composition, application method, and curing conditions. Due to the thermoplastic character of Lumicryl® 2382 before cure, best results are obtained by UV-curing formulations at elevated temperatures (at least 50°C) to allow sufficient molecular mobility to achieve good degree of cure. Lumicryl® 2382 may be formulated with other UV-curable resins and additives to tailor the properties of the final cured coating or ink. However, addition of significant fractions of low viscosity resins or monomer diluents may negatively impact the dry-to-touch tack-free properties of the uncured dried film.

## 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, DSL, EINECS, NZIoC, TSCA.

## PACKAGING (NET WEIGHT)

40 lb. / 18.1 kg in steel pail

400 lb. / 181.4 kg in steel drum

## PRODUCT AVAILABILITY

This product is experimental and may require lead time.

## STORAGE AND HANDLING

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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**

807 N. Main Street  
P.O. Box 127  
Calvert City, KY 42029 USA

(270) 395-4195 PHONE  
(270) 395-5070 FAX

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*TDS Revised by: S. Daymon*

*TDS Approved by: F. Allen*