

**LUMICRYL® 1928**  
**UV/EB CURABLE RESIN**  
**FOR ENERGY CURABLE COATINGS**

*Experimental Product*



THE EDGE OF INNOVATION

[www.estron.com](http://www.estron.com)

## GENERAL DESCRIPTION

*Lumicryl® 1928* is a 100% solids resin composition based upon a reactive acrylic macromer diluted in TCDDMDA<sup>1</sup>. *Lumicryl® 1928* is designed to provide excellent adhesion to both low and high surface energy substrates, and may be used as the primary film-forming component or as an adhesion promoting additive in UV/EB formulations for various applications.

## TYPICAL PROPERTIES\*

<b>Macromer Chemistry</b>	Acrylic copolymer
<b>Macromer Reactive Functionality</b>	acrylate
<b>Macromer Content</b>	30-35%
<b>Diluent Content</b>	TCDDMDA <sup>1</sup> , 65-70%
<b>Appearance</b>	Clear liquid
<b>Brookfield Viscosity, 25°C</b>	2000 - 4000 cP
<b>Specific gravity</b>	1.1 g/mL
<b>Acid Value</b>	1 – 4 mgKOH/g

\* Not to be used for specification purposes

<sup>1</sup>Tricyclodecane dimethanol diacrylate

## APPLICATION INFORMATION

*Lumicryl® 1928* can be combined with a standard free-radical photoinitiator package to provide coatings with excellent adhesion to a variety of substrates. When formulated solely with photoinitiator, *Lumicryl® 1928* shows moderate cure shrinkage of about 7%, largely due to the monomer diluent content. Appropriately cured films made from *Lumicryl® 1928* have pencil hardness up to 7H and can be expected to show excellent light stability.

Additionally, *Lumicryl® 1928* can be used in combination with other energy-curable oligomers, monomers, and additives to prepare 100% solids or solvent-borne formulations with cured film properties tailored to specific applications.

## POSSIBLE APPLICATION AREAS

**Coatings:** Paper, wood, flooring, electronics, plastics, metals

**Adhesives:** UV/EB cure laminating

**Graphic Arts:** Inks, overprint varnish

## REGULATORY LISTINGS

All components of this material are currently listed on the Toxic Substances Control Act (TSCA) inventory.

## PACKAGING & AVAILABILITY

This product is experimental and subject to change. Evaluation samples and commercial quantities are available. Please contact your Estron Sales Representative for lead time and availability.

40 lb. / 18.1 kg in steel pail

400 lb. / 181.4 kg in steel drum

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**STORAGE AND HANDLING**

Lumicryl® 1928 is designed as a reactive resin composition that can polymerize upon exposure to peroxides, amines, thiols, photoinitiators, and other free-radical sources and oxidizing agents. Containers should be UV-opaque and must be stored away from heat (< 38°C / 100°F) and oxidizing agents. Short-term heating up to 60°C / 140°F may be utilized if necessary during processing to aid in product transfer. Lumicryl® 1928 is stabilized against premature polymerization using phenolic-type inhibitors and should not be stored under anaerobic conditions. See the MSDS for specific storage conditions. Product shelf life for material properly stored in unopened containers is six months from the date of shipment.

**CONTACT INFORMATION**

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*TDS Revised by: S. Daymon*

*TDS Approved by: F. Allen*