

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

Experimental Product



THE EDGE OF INNOVATION

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GENERAL DESCRIPTION

Lumicryl® 1928 is a 100% solids resin composition based upon a reactive acrylic macromer diluted in TCDDMDA¹. *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*

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

* Not to be used for specification purposes

¹Tricyclodecane dimethanol diacrylate

APPLICATION INFORMATION

Lumicryl® 1928 can be combined with a standard free-radical photo-initiator package to provide coatings with excellent adhesion to a variety of substrates. When formulated solely with photo-initiator, *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

The components in *Lumicryl® 1928* are either listed or exempt from listing due to compliance with polymer exemption criteria for the following International Chemical Inventories: DSL (Canada), TSCA (United States).

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

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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

STORAGE AND HANDLING

Lumicryl® 1928 is designed as a reactive resin composition that can polymerize upon exposure to peroxides, amines, thiols, photo-initiators, 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 SDS 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: D. Smith

TDS Approved by: F. Allen