

**LUMICRYL® 102
UV/EB CURABLE RESIN
FOR ENERGY CURABLE COATINGS**

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THE EDGE OF INNOVATION

GENERAL DESCRIPTION

Lumicryl® 102 is a UV/EB-curable acrylic macromer suitable for formulating coatings and inks for application on film, laminate, plastic, metal, wood, paper or other substrates. Cured coatings based on Lumicryl® 102 have excellent abrasion and chemical resistance. Lumicryl® 102 can be used to formulate clear, pigmented or highly filled systems.

Coatings utilizing Lumicryl® 102 may be applied using conventional application equipment such as roller, spray, flexo, gravure, screen and others. Formulations based on Lumicryl® 102 will dry to a tack-free, dry-to-touch, film after the solvent is flashed off. The dried, but uncured, coating remains in a thermoplastic state and can undergo intermediate processing such as stamping, forming, transfer laminating, thermal transfer, sanding, and re-coating prior to UV curing.

Lumicryl® 102 formulation and finished coating properties may be adjusted by admixture with low levels of UV reactive monomers and oligomers while maintaining the dry-to-touch property. The addition of common photoinitiators affords rapid cure of the coating after solvent removal. Cure response may be improved by ensuring that the thermoplastic dried film is above 50-60°C during UV exposure.

TYPICAL PROPERTIES*

Solids	34 - 36%
Solvent	n-propyl acetate
Viscosity	150 - 300 cP
APHA Color	100 Max
Specific Gravity	0.99 at 25°C

* Not to be used for specification purposes

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), IECSC (China), NZIoC (New Zealand), TSCA (United States)

All components are REACH registered per ECHA requirements.

PACKAGING (NET WEIGHT)

40 lb. / 18.1 kg in steel pail

400 lb. / 181.4 kg in steel drum

STORAGE AND HANDLING

Store unopened containers of Lumicryl® 102 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. 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. See SDS for additional information.

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: D. Smith

TDS Approved by: F. Allen