

Printing & Packaging Industrial Coatings

Technical Data Sheet

Laromer® EA 9101



Product Description	<i>Laromer EA 9101 is an epoxy acrylate oligomer for the formulation of energy curable inks and coatings, commonly used as a pigment wetting agent in offset applications.</i>
Key Features & Benefits	<ul style="list-style-type: none">- very high flexibility- excellent pigment wetting- outstanding ink/water balance in UV/EB offset applications- good film forming properties
Chemical Composition	<i>Epoxidised soybean oil acrylate</i>

Properties

Typical Properties	Appearance	clear, yellowish high viscous liquid
	Viscosity at 23°C	13000 -20000 cps
	Acid Value	≤ 5.0 mg KOH/g
	Gardner color number	≤ 7
	Functionality (theoretical)	~ 4
	Surface Tension at 20°C	33 mN/m
	Refractive index n_D at 20°C	1.483
	Density at 20°C	1.041 g/cm ³

These typical values should not be interpreted as specifications.

Applications

Laromer® EA 9101 is an epoxy acrylate oligomer that shows exceptional pigment wetting properties due to its long hydrophobic soybean oil backbone. This key property makes it a versatile formulation component for all kinds of pigmented UV/EB lacquers and UV/EB inks, particularly offset ones. Laromer® EA 9101 exhibits moderate cure speed due to its average double bond density, but is a good crosslinker due to its high functionality. The medium double bond density makes it a prime choice as flexibilizer for hard, rigid films as for example for those based on bisphenol A epoxy diacrylate. The high flexibility supports substrate wetting with good flow and levelling and improves adhesion on polar metal surfaces. Laromer® EA 9101 is compatible with all mono- and multifunctional monomers as well as with all common polyester acrylates, epoxy acrylates and urethane acrylates. Laromer® EA 9101 is an important formulation component for UV/EB low migration inks and overprint varnishes due to its high molecular weight.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Laromer® EA 9101.

Important

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