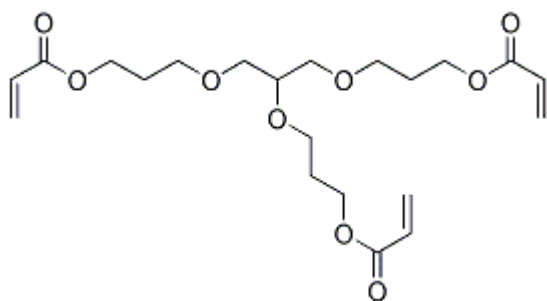


Product Data Sheet

General Information

PHOTOMER[®] 4094 is an aliphatic trifunctional acrylate of low viscosity, low skin irritancy and excellent reactivity. Designed for UV/EB curable systems, it produces films of high crosslink density which are more flexible than those of first generation monomers such as TMPTA without sacrificing cure speed.

Chemical Data



Chemical Name : Propoxylated glycerol triacrylate
Molecular weight : 428 g/mol
CAS No. : 52408-84-1

Specification

Appearance	Visual	Clean and clear liquid
Viscosity @ 25 °C	Brookfield, ISO 2555	70 - 100 mPa.s
Colour (APHA)	ISO 6271	≤ 100
Acid Value	NF EN ISO 660	≤ 0.5 mg KOH/g
Moisture content	Karl Fischer, ISO 4317	≤ 0.2 %
Inhibitor content	Spectrophotometer	200 - 500 ppm
Solvent content	GC Analysis	≤ 1000 ppm

Additional Typical Properties

Specific Gravity @25°C (ISO 6883): 1.080 - 1.110 g/cm³
 Refractive Index @25°C: 1.4570 - 1.4670

Application

The excellent film forming characteristics of PHOTOMER® 4094 recommend it for UV/EB applications. It can be used in combination with other PHOTOMER® products for coatings and inks where a monomer is required to contribute crosslink density to the cured film.

PHOTOMER® 4094 has an outstanding ink water balance which makes it very suitable for litho applications.

Features & Benefits

PHOTOMER® 4094, a reactive diluent, imparts hardness without brittleness, enhances flexibility, and contributes to chemical and abrasion resistance characteristics in UV/EB curable coatings.

Storage & Handling

Storage must be in a cool, shaded, well ventilated and dry area away from direct sources of heat and sunlight. PHOTOMER® 4094 may congeal or stratify if cold. Allow to warm to room temperature and mix well before using.

Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 12 months.

PHOTOMER® 4094 should be handled in accordance with good industrial practice. Further information is provided in the material safety data sheet which is available on request.

Regulatory Status

TSCA (USA), EU (Europe), IECSC (China), DSL (Canada), PICCS (Philippines), AICS (Australia), NZIoC (New Zealand), ECL (Korea), Taiwan

Packaging

PHOTOMER® 4094 is available in 200Kg drum and IBC's

Disclaimer

The information presented in this data sheet is given in good faith and is based on the material available to us at the time of writing. The information is not to be taken as a warranty or representation for which we assume legal responsibility, nor as permission or recommendation to practice any patented invention without a license. It is offered solely for consideration, investigation and verification.