

### Product Data Sheet

#### General Information

PHOTOMER<sup>®</sup> 4703 is a proprietary UV/EB curable monoacrylate with low viscosity. It is designed for use in laminating adhesives, etch-resist inks for printed circuit boards, negative photoresists and OPV's for paper and films.

#### Specification

<b>Appearance</b>	<b>Visual</b>	<b>Clear pale yellow liquid</b>
<b>Viscosity @ 25 °C</b>	<b>Brookfield, ISO 2555</b>	<b>150 - 230 mPa·s</b>
<b>Colour (Gardner)</b>	<b>ISO 4630</b>	<b>≤ 2</b>
<b>Acid Value</b>	<b>ISO 660</b>	<b>240 - 290 mg KOH/g</b>

#### Additional Data

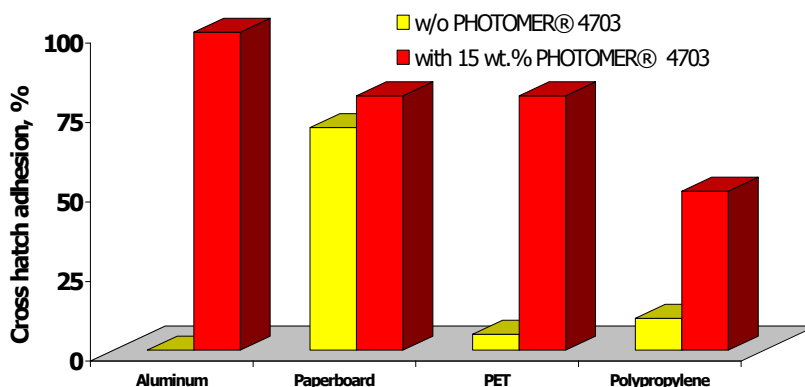
Weight/Gallon @ 25 °C	10.8 lbs
Specific Gravity @ 25 °C	1.300 g/cm <sup>3</sup>
Inhibitor	300 ppm MEHQ

#### Application

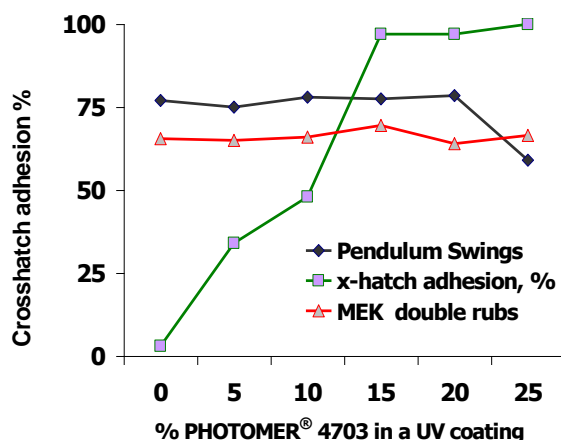
PHOTOMER<sup>®</sup> 4703 is recommended for use in UV/EB curable electronic coatings and inks, such as etch resists and plate resists. It is also recommended for use in UV/EB pressure sensitive and laminating adhesives. PHOTOMER<sup>®</sup> 4703 can be readily combined with other PHOTOMER monomers for low viscosity coatings, where flow and leveling are required. Neat films of PHOTOMER<sup>®</sup> 4703 on selected metal substrates are characterized by outstanding adhesion, good scuff resistance and high gloss.

Adhesion Characteristics of PHOTOMER<sup>®</sup> 4703 are demonstrated in the following graphs.

**Adhesion improvement on multiple substrates**



## Adhesion Promoter Optimization



## Storage & Handling

Storage must be in a cool, shaded, well ventilated and dry area away from direct sources of heat and sunlight. PHOTOMER® 4703 may congeal, stratify or form precipitate if subjected to cold or freezing conditions and moisture. Allow to warm to room temperature and mix well on a drum roller before using.

Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 6 months.

PHOTOMER® 4703 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), NDSL (Canada), PICCS (Philippines), ECL (Korea), ENCS/MITI (Japan), TCSI (Taiwan)

## Packaging

PHOTOMER® 4703 is available in 55 gallon (200 liter) lined tighthhead steel drums.

### 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.