

PHOTOMER® 8061

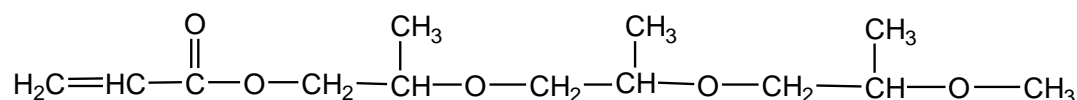
Trippropylene Glycol Monomethyl Ether Acrylate

Product Data Sheet

General Information

PHOTOMER® 8061 is a novel aliphatic monofunctional acrylate (TPGMEMA) of low skin irritancy, low viscosity, low surface tension and low odour. It exhibits good solvency and viscosity reducing characteristics with typical UV/EB curable oligomers and prepolymers.

Chemical Data



Chemical Name : Trippropylene Glycol Monomethyl EtherAcrylate (TPGMEMA)
Molecular weight : 260 g/mol

Specification

Appearance	Visual	Clear pale yellow liquid
Viscosity @ 25 °C	Brookfield, ISO 2555	5 - 10 mPa.s
Colour (APHA)	ISO 6271	≤ 250
Acid Value	ISO 660	≤ 0.5 mg KOH/g
Moisture content	Karl Fischer, ISO 4317	≤ 0.5 %
Solvent content	GC Analysis	≤ 5000 ppm

Additional Typical Properties

Surface Tension	31.0 dynes/cm
Inhibitor content	250 ppm MEHQ

Application

PHOTOMER® 8061 may be used, after adequate testing, in applications such as UV/EB curable topcoats, clear coating and pigmented systems where low viscosities are required to ensure proper flow-out during high speed processing. Its low surface tension enhances the flow, levelling and wetting characteristics of a coating while decreasing shrinkage on cure. The properties of PHOTOMER® 8061 are particularly useful in UV/EB curable inkjet and overprint varnishes and topcoats for paper, metal and plastic substrates. UV cured films of PHOTOMER® 8061 on aluminium demonstrate the excellent properties that can be achieved, especially where optimum flexibility is required.

Formulated product properties will depend on the actual reactive monomers, oligomers and additives utilized.

Features & Benefits

Film Properties of PHOTOMER® 8061 cured with 6% Omnirad BP Flakes and 2 % tertiary amine.

Gloss 60°	Good
Adhesion (#600 Cellotape)	100 %
Pencil Hardness	4B
Solvent Resistance (MEK Double Rubs)	3
Conical Mandrel	< 0.25

Curing conditions: Applied on QP panel by RDS Rod #3; 6.8 µm wet film thickness; cured with one 300 watt/inch UV lamp

Storage & Handling

Storage must be in a cool, shaded, well ventilated and dry area away from direct sources of heat and sunlight. PHOTOMER® 8061 may stratify or solidify if subjected to cold or freezing conditions. Allow to warm to room temperature and mix well before using, a drum roller may be necessary. Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 24 months.

PHOTOMER® 8061 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), EINECS (Europe), IECSC (China), ECL (Korea), NZIoC (New Zealand)

Packaging

PHOTOMER® 8061 is available in in 55 gallon (200 liter) lined openhead 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.