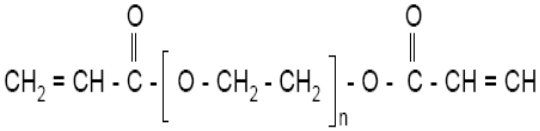
PHOTOMER® 4050
Polyethylene Glycol 200 Diacrylate

Product Data Sheet

General Information

PHOTOMER® 4050 is an aliphatic difunctional acrylate of low viscosity, low volatility, good flexibility and reactivity. It is an effective reactive diluent with good viscosity reducing and solvency characteristics for a wide range of radiation curable acrylated oligomers and prepolymers.

Chemical Data



n = 4 - 5

Chemical Name : Poly(ethylene glycol) diacrylate
CAS No. : 26570-48-9

Typical Properties

Appearance	**Visual**	**Clean and clear liquid**
Viscosity @ 25 °C	**Brookfield, ISO 2555**	**10 - 30 mPa.s**
Colour (APHA)	**ISO 6271**	**≤ 70**
Acid Value	**NF EN ISO 660**	**≤ 0.5 mg KOH/g**
Moisture content	**Karl Fischer, ISO 4317**	**≤ 0.2 %**
Inhibitor content	**Spectrophotometer**	**≤ 600 ppm**
Specific Gravity @ 25°C		**1.080 - 1.130 g/cm³**
Refractive index @ 25°C		**1.4550 - 1.4670**

Application

PHOTOMER® 4050 is recommended for use in UV/EB curable coatings for flexible substrates such as paper/paperboard, photopolymeric printing plates, no-wax vinyl tile flooring, and vinyl sheeting. The long chain nature of PHOTOMER® 4050 imparts flexibility into UV/EB curable as compared to acrylate monomers with equal functionality. The high proportion of ether linkages in its backbone makes PHOTOMER® 4050 significantly hydrophilic and may contribute towards improved adhesion of coatings to polar substrates.

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Storage & Handling

PHOTOMER® 4050 may crystallize or stratify if subjected to cold or freezing conditions. 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® 4050 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), ENCS (Japan), Taiwan

Packaging

PHOTOMER® 4050 is available in 200 kg drums.

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