



PHOTOMER[®] 5310 Matting Resin

Product Data Sheet

General Information

PHOTOMER[®] 5310 is a di functional self matting oligomer used in UV/EB curable systems. It has been specially designed to formulate very low gloss UV varnishes. It exhibits of less yellowing and more hardness than PHOTOMER[®] 5010

Specification

Appearance	Visual	Clear or slightly hazy viscous gel
IR identification	M 156	Conform reference
Specific Gravity @ 25°C	ISO 2811- 3	1.056 - 1.061 g/cm³

Additional Typical Properties

PHOTOMER[®] 5310 exhibits a strong pseudoplasticity. Without stirring, the product is like a gel. During application (or under agitation), it becomes fluid for easy handling. As soon as stirring is stopped, PHOTOMER[®] 5310 returns to its gel form. More over, the viscosity tends to increase together with the temperature.

Application

PHOTOMER[®] 5310 is a core resin in systems where very low gloss is requested. In combination with other types of resins (PU or Polyester acrylates), the formulator can easily adjust reactivity, viscosity and gloss level regardless of the film thickness.

PHOTOMER[®] 5310 based formulations ensures a constant gloss level independently of the working temperature. For better results, it is recommended to cure the film with low energy UV exposure.

Photomer[®] 5310 eliminates the need for working with dry powders and therefore grinding or dispersing is not needed. By selecting photo initiators in a liquid form the need for manufacturing at higher temperatures can be avoided at the same time. This makes PHOTOMER[®] 5310 highly suitable for small order productions.

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

Features & Benefits

Photomer® 5310 has compared to Photomer® 5010 enhanced performances:

- Less yellowing;
- Increased hardness;
- Lower matt levels can be achieved with the same quantity;
- Reduced odour.

Storage & Handling

Storage must be in a cool, shaded, well ventilated and dry area away from direct sources of heat and sunlight. Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 12 months.

PHOTOMER® 5310 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/DSL (Canada), AICS (Australia), NZIoC (New Zealand) and Taiwan

Packaging

PHOTOMER® 5310 is available in 180 kg drums.

Disclaimer

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