



Print This Page Coatings and Adhesives

BU Additives and Adsorbents

## Licocene® PE MA 4351 fine grain

### Functionalized metallocene polyethylene wax

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#### Product Description

Licocene PE MA 4351 fine grain is a highly grafted maleic anhydride polyethylene wax with advantageous physical properties e. g. for powder coating applications. The maleic anhydride modified polyethylene creates structured surfaces in combination with titanium dioxide. The roughness depends on the ratio of titanium dioxide to Licocene PE MA 4351 fine grain. Licocene PE MA 4351 fine grain is used as an efficient coupling agent for glass-, wood-, natural fibre and inorganic filled PE compounds

#### Benefits

- PTFE-free additive to produce matt surfaces in powder coatings
- Improved edge covering and influence on flow properties especially in white powder coatings
- Dispersing aid for fillers and pigment
- Good wetting of the fibre due to low viscosity and high polarity
- High dimension stability of the end product
- Low water uptake in wood and natural fibre reinforced plastics
- High grafting level of 7 % maleic anhydride
- Effective at low concentration
- Almost no free maleic anhydride detectable

#### Specifications

##### Delivery Specifications and (\*) General Properties

Characteristics	Unit	Target value	Test method
Appearance		yellowish fine grain	QM-AA-634
Acid value	[mg KOH/g]	42 - 49	QM-AA-351a
Density (23°C)	[g/cm <sup>3</sup> ]	0.98 - 1.00	ISO 1183
Drop point	[°C]	120 - 126	ASTM D 3954
Viscosity	[mPa·s]	200 - 500	QM-AA-158 at 140°C

#### Applications

Licocene PE MA 4351 fine grain is a highly maleic anhydride grafted polyethylene wax. It is preferable used for polyethylene based reinforced compounds in the concentration range of 1 – 3 %. The concentration depends on the particle size, the kind and amount of the reinforcing material. Therefore the optimum concentration has to be determined individually in specific tests.

Licocene PE MA 4351 fine grain is a highly efficient compatibilizer and dispersing aid for glass- natural-, mineral- and wood fibre reinforced Polyethylene as well as for inorganic filled Polyethylene compounds especially for highly filled compounds.

Used in hot melt formulations, Licocene PE MA 4351 fine grain offers improved adhesion and cohesion combined with a high heat resistance.

## Packaging and Handling

### Delivery form

Fine Grain

The product is also available in other physical form(s)

### Packaging

Polyethylene bag 20 kg

Pallet 1000 kg (50 bags)

Big Bag 500 kg

### Storage

For best shelf life store this product in a dry area at normal ambient temperatures.

Minimum shelf life is two years from the date of shipping when properly stored.

## Safety

### Hazards

The product does not require a hazard warning label according CLP regulation (Regulation (EC) No. 1272/2008, as amended).

For further information please refer to the Material Safety Data Sheet.

### Contact Us;

Please contact us for safety and regulatory details or the Material Safety Data Sheet (MSDS).

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