



VISCOWAX[®] 516MA

PE-g-MA-wax

VISCOWAX[®] 516MA is a high quality maleic anhydride grafted polyethylene wax containing at least 0.5 % maleic anhydride (development product)

Characteristics	Reference Value	Units	Test Method
Viscosity @ 140°C *	600-1000	mm ² /s	DGF M-III 8
Drop Point *	110-120	°C	DGF M-III 3
Needle Penetration	≤ 1	10 ⁻¹ mm	DGF M-III 9b
Density	0.94-0.96	g/cm ³	DIN EN ISO 1183, C
Type of delivery	Fine grain	-	Visual

* general supply specification

DGF: Test methods of the Deutsche Gesellschaft für Fettwissenschaft e.V. Münster i.W.

Benefits created by Product

Enhanced adhesion and cohesion:
functionality of maleic anhydride enable strong binding

Improved dispersing and wetting:
polar groups at non-polar wax enable better stabilization of pigments

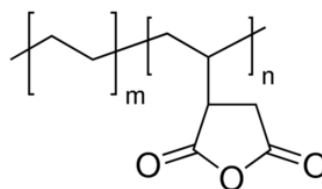
Good coupling agent and compatibilizer:

Amphiphilic properties help dispersing polar pigments in non-polar resins

Polar PE-wax with high temperature resistance:

applicable in PVC and in engineering plastic processing

Chemical Formula



Safety

VISCOWAX[®] 516MA has not been classified as hazardous materials in accordance with the Hazardous Materials Ordinance and therefore they do not require marking.

Please refer to the Safety Material Data Sheet for further safety-relevant information.



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Main Scope of Applications

Pigment and additive concentrates

- functional maleic anhydride groups enables good wetting and therefore an improved dispersion and stabilization of polar pigments and additives
- allows incorporation of heavy to disperse additives or pigments, such as i.e. Pigment Green 7 or Red 122
- most favoured application in master-batches based on polyethylene

Hot Melt Adhesives

- excellent balance of high heat resistance and cold adhesion
- improved hardening and fast set speed allows high throughput
- applicable for case and carton sealing as well as adhesive films

Plastic Compounds (i.e. Wood-Plastic Composites, Blends)

- integration of glass, natural fibers, inorganic and also liquid additives in non-polar resins
- suitable coupling agent for PE-based Wood-Plastic Composites

Coatings

- structuring agent for thermoplastic and thermosetting powder coatings to avoid fingerprints
- increased metal surface adhesion with additional abrasion resistance
- anti-sagging properties exhibiting a consistent finish
- incorporation of inorganic substances help decrease cost
- recommended application in powder coating as well as road marking paint

Plastic processing

- temperature stability allows for mold release effect in engineering resins
- compatibilizer for different resins (PET/PO)

Please do not hesitate to contact us for further details.

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The general points listed correspond to our current knowledge and have been elaborated to the best of our belief and under consideration of professional care. Herewith, we do not guarantee definite properties nor suitability for a particular application. It is the customer's duty to particularly check suitability of the product for the use intended.