



VISCOWAX® 253

Oxidised PE-Wax

CAS Number: 68441 - 17 - 8

VISCOWAX® 253 – high quality oxidised, polar polyethylene wax.

Characteristics	Reference Value	Units	Test Method
Acid Value*	14-18	mg KOH/g	DGF M-IV 2
Viscosity @ 140 °C *	150-300	mm ² /s	DGF M-III 8
Drop Point *	105-111	°C	DGF M-III 3
Solidification Point	96-100	°C	DGF M-III 4a
Needle Penetration	≤ 2	10 ⁻¹ mm	DGF M-III 9b
Density	0.94-0.96	g/cm ³	DIN EN ISO 1183, C
Molecular weight (Mn)	1800	g/mol	GPC
Saponification value	> 30	mg KOH/g	DGF M-IV 2
Type of delivery	Fine grain	-	Visual
Appearance	White-yellowish	-	Visual

* general supply specification

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

Main Scope of Application

- **Plastic processing**
 - Lubricant for PVC-processing
- **Paraffin compounding, candle industry**
 - Increase on drop point
 - Improvement of release effect and surface gloss

Applications as water-based Emulsions:

- **Textile Industry**
 - Plasticizer component
 - Improvement of cross-linking properties, tear resistance and smoothing of fabrics
 - Slip agent for sewing threads
- **Paper industry**
 - For surface finishing
- **Printing inks**
 - As anti-blocking / slip agent
 - Agent for abrasion prevention in aqueous printing inks
- **Diecasting industry**
 - As release agent
- **Fruit coating**



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Status under Food Legislation

EU:

Listed in Annex I of Regulation (EU) 10/2011
(Ref. No: 80077, SML = 60 mg/kg)

USA:

FDA CFR 21 §177.1620 Polyethylene,
oxidized;

Further §§175.300, 175.105, 176.170,
176.180, 177.1390; 177.1200; 177.2800

For fruit coating application VISCOWAX®
253 complies with

- EU-Directive 95/2/EG (E914)
- Germany: Deutsche
Zusatzstoffzulassungsverordnung:
(E914)
- USA: FDA CFR 21 § 172.260

Form of Delivery, Packaging and Storage

VISCOWAX® 253 is shipped palletised
(preferably 750 kg each) and shrink-
wrapped as dust-free powder in PE sacks
of 25 kg each. Shipment in big bags of
different sizes is possible upon request.
The product shall be stored in its original
packaging at room temperature in a dry
place. It must not be stored together with
amines. Avoid direct sun radiation and
water contact.

Safety and Environment

VISCOWAX® 253 has not been classified
as hazardous materials in accordance with
the Regulation (EC) No. 1272/2008
(CLP/GHS) and therefore it does not
require marking. The product does not
contain heavy metals. It is insoluble in
water and has no harmful effect on fish and
bacteria. Disposal of the product is to be
carried out in accordance with the local
regulations.

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

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.