VISCOWAX® 253 – high quality oxidised polyethylene wax.
It contains polar functional groups and is emulsifiable in water.

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Reference Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid Value*</td>
<td>14-18</td>
<td>mg KOH/g</td>
<td>DGF M-IV 2</td>
</tr>
<tr>
<td>Viscosity @ 140 °C *</td>
<td>150-300</td>
<td>mm²/s</td>
<td>DGF M-III 8</td>
</tr>
<tr>
<td>Drop Point *</td>
<td>105-111</td>
<td>°C</td>
<td>DGF M-III 3</td>
</tr>
<tr>
<td>Solidification Point</td>
<td>96-100</td>
<td>°C</td>
<td>DGF M-III 4a</td>
</tr>
<tr>
<td>Needle Penetration</td>
<td>≤ 2</td>
<td>10⁻¹ mm</td>
<td>DGF M-III 9b</td>
</tr>
<tr>
<td>Density</td>
<td>0.94-0.96</td>
<td>g/cm³</td>
<td>DIN EN ISO 1183, C</td>
</tr>
<tr>
<td>Molecular weight (Mn)</td>
<td>1800</td>
<td>g/mol</td>
<td>GPC</td>
</tr>
<tr>
<td>Saponification value</td>
<td>&gt; 30</td>
<td>mg KOH/g</td>
<td>DGF M-IV 2</td>
</tr>
<tr>
<td>Type of delivery</td>
<td>Fine grain</td>
<td>-</td>
<td>Visual</td>
</tr>
<tr>
<td>Appearance</td>
<td>White-yellowish</td>
<td>-</td>
<td>Visual</td>
</tr>
</tbody>
</table>

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

VISCOWAX® 253 can be used in many different applications. Please contact us to get more information about the special properties of our product and the potential use / advantage in your application.

Main scope of applications and effects:

- Plastic processing
  - Lubricant for PVC processing
  - Dispersing agent for Masterbatches and WPC

- Lacquers
  - Rheology additive / Anti-settling

Applications for water-based emulsions:

- Fruit coating
  - Surface protecting and sealing, Gloss

- Textile
  - Plasticizer component for easy-care finishing
  - Softening of fabrics (Softener)

- Paper
  - Surface finishing

- Polishes
  - Shoe creams, floor polishes, leather care

- Printing inks
  - Anti blocking / slip agent / abrasion prevention

- Die-casting
  - Release agent
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

Fruit coating:
VISCOWAX® 253 complies with:
• Regulation (EU) No. 1333/2008 + Regulation (EU) No. 231/2012 (E914)
• Germany: Deutsche Zusatzstoff-Zulassungsverordnung: (E914)
• USA: FDA CFR 21 § 172.260

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.

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 our Safety Data Sheet for further safety relevant information

Form of Delivery, Packaging and Storage

VISCOWAX® 253 is shipped as dust-free powder either in multilayer paper bags or PE bags of 25 kg net. The product is palletised (preferably 750 kg net) on CP2-pallets (1200mm x 800mm) which are shrink-wrapped.

Big bags of different sizes up to 1000kg net palletised on CP3-pallets (1140mm x 1140mm) are also available.

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.

Please do not hesitate to contact us for further details.
Innospec Leuna GmbH
Am Haupttor, Bau 6310
D-06237 Leuna, Germany
Tel.: +49(0)3461-434065
Fax : +49(0)3461-434070
E-mail: leuna@innospecinc.com
www.innospecinc.com

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