**VISCOWAX® 114 coarse grain** – high quality polyethylene wax produced according to a high pressure polymerisation process

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Reference Value</th>
<th>Units</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity @ 140 °C *</td>
<td>300-400</td>
<td>mm²/s</td>
<td>DGF M-III 8</td>
</tr>
<tr>
<td>Drop Point *</td>
<td>112-117</td>
<td>°C</td>
<td>DGF M-III 3</td>
</tr>
<tr>
<td>Solidification Point</td>
<td>103-108</td>
<td>°C</td>
<td>DGF M-III 4a</td>
</tr>
<tr>
<td>Needle Penetration</td>
<td>≤ 1</td>
<td>10⁻¹ mm</td>
<td>DGF M-III 9b</td>
</tr>
<tr>
<td>Density</td>
<td>0.93-0.95</td>
<td>g/cm³</td>
<td>DIN EN ISO 1183, C</td>
</tr>
<tr>
<td>Molecular weight (Mn)</td>
<td>2300</td>
<td>g/mol</td>
<td>GPC</td>
</tr>
<tr>
<td>Type of delivery</td>
<td>Coarse grain**</td>
<td>-</td>
<td>Visual</td>
</tr>
<tr>
<td>Appearance</td>
<td>White</td>
<td>-</td>
<td>Visual</td>
</tr>
</tbody>
</table>

*general supply specification  
**average particle size: approx. 1mm  
DGF: Test methods of the Deutsche Gesellschaft für Fettwissenschaft e.V. Münster i.W.

VISCOWAX® 114 coarse grain 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:**

- **Die-casting**
  - Release agent

- **Plastic processing**
  - Lubricant for PVC processing
  - Carrier material and dispersing aid in pigment and additive concentrations / Masterbatches

- **Printing Inks**
  - Abrasion prevention
  - Antiblocking

- **Lacquers and varnishes**
  - Matting agent
  - Abrasion prevention
  - Rheology additive

- **Hot melt adhesives, Paraffin compounds, Candles,**
  - Adjustment of viscosity, softening point and drop melting point

- **Shoe and floor polishes**
  - Surface protection and sealing
  - Care
  - Gloss
Status under Food Legislation

EU: Listed in Annex I of Regulation (EU) 10/2011 (Ref. No. 80000)

USA: FDA 21 CFR §§ 178.3720, 177.1520 (c) 2.3, 175.300, 175.105

Form of Delivery, Packaging and Storage

VISCOWAX® 114 coarse grain 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.

Safety and Environment

VISCOWAX® 114 coarse grain 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.

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.