VISCOWAX® 116 – 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>600-800</td>
<td>mm²/s</td>
<td>DGF M-III 8</td>
</tr>
<tr>
<td>Drop Point *</td>
<td>114-120</td>
<td>°C</td>
<td>DGF M-III 3</td>
</tr>
<tr>
<td>Solidification Point</td>
<td>105-110</td>
<td>°C</td>
<td>DGF M-III 4a</td>
</tr>
<tr>
<td>Needle Penetration</td>
<td>&lt; 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>2900</td>
<td>g/mol</td>
<td>GPC</td>
</tr>
<tr>
<td>Type of delivery</td>
<td>Fine 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

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

VISCOWAX® 116 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
  - 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
  - Lubricant and scratch resistance for powder coatings
- 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

For further information please contact us under the below mentioned address.

Safety and Environment

VISCO Wax® 116 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

VISCO Wax® 116 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.

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Leuna, March 2015

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.