DEUREX® E 13

TECHNICAL INFORMATION

Chemical description: Non polar, high molecular Polyethylene wax

Applications: 
- Carrier for pigment concentrates
- Plastics industry
- Modification of hotmelt adhesive and coating hotmelts
- Printing inks
- Paints and coatings
- Care products
- Additive for hydrocarbon waxes

Properties: 
- Dispersion agent
- Lubricant
- Good matting
- Good abrasion

Technical data:

<table>
<thead>
<tr>
<th>Property</th>
<th>DEUREX® E 13</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery forms:</td>
<td>Fine granules</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drop point*</td>
<td>115 °C</td>
<td>123 °C</td>
<td>LV 12 (DGF M-III 3)</td>
</tr>
<tr>
<td>Acid value</td>
<td>0 mgKOH/g</td>
<td></td>
<td>DIN EN ISO 2114</td>
</tr>
<tr>
<td>Viscosity (140 °C)*</td>
<td>700 mPas</td>
<td></td>
<td>LV 2 (DIN EN ISO3104)</td>
</tr>
<tr>
<td>Penetration</td>
<td>0.5 mm*10^-1</td>
<td>1.0 mm*10^-1</td>
<td>LV 4 (DIN 51579)</td>
</tr>
<tr>
<td>Density (23 °C)</td>
<td>0.93 g/cm³</td>
<td>0.94 g/cm³</td>
<td>LV 3 (DIN EN ISO 1183)</td>
</tr>
</tbody>
</table>

*Part of certificate of analysis

Approvals:

DEUREX® E 13 is approved for the production of commodities intended to come into contact with food.

FRG: BfR recommendation XXV (chapter E), II, IX, XXXVI, XLVIII; LII
USA: FDA 21 CFR §§ 177.1520 (c) 175.105, 175.300, 176.170, 176.180, 177.1200, 177.1210, 177.2600, 177.2800, 178.3570, 178.3850

(Approvals with regard to limitations and migration values in the final application)

Safety:

The product is no dangerous preparation according to Directive 1999/45/EC. It is not subject to labelling according to EC Directives 67/548/EEC and Regulation (EC) 1272/2008.