DEUREX® H 81

TECHNICAL INFORMATION

Chemical description: Hybrid wax made of sugar cane wax and polyethylene waxes

Benefit:
- High acid number
- Homogenized
- Emulsifiable in water

Applications:
- Raw material for bio based products
- Natural product, ideal for sustainable formulations
- Plastics and PVC:
  - Internal and external lubricant
- Care products:
  - Silky gloss after polishing
  - Water repellency
- Production of water based emulsions
  - Emulsifiable under pressure using only a small dosage of emulsifier
- Coatings and powder coatings
  - Matting agent
  - Grip
  - Increased slip, scratch and UV resistance
- Paper, wood and textiles
  - Improved slip
  - Water repellency
  - Improved sewing properties
- Printing inks
  - Increased colour output

Technical Data:

<table>
<thead>
<tr>
<th>Consistencies</th>
<th>DEUREX H 81 P = Powder</th>
<th>DEUREX H 81 G = Granules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>Maximum</td>
<td>Method</td>
</tr>
<tr>
<td>Drop point**:</td>
<td>80 °C</td>
<td>100 °C</td>
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<tr>
<td>Acid value***:</td>
<td>18 mg KOH/g</td>
<td>25 mg KOH/g</td>
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<tr>
<td>Viscosity (140 °C):</td>
<td>30 mPas</td>
<td>LV 2 (DIN EN ISO 3104)</td>
</tr>
<tr>
<td>Penetration:</td>
<td>4 mm*10^(-1)</td>
<td>8 mm*10^(-1)</td>
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<tr>
<td>Density (23 °C):</td>
<td>0.90 g/cm³</td>
<td>0.93 g/cm³</td>
</tr>
</tbody>
</table>

* Part of certificate of analysis
Sugar cane waxes are natural products. Physical properties are subject to slight variations.
Approvals:

DEUREX® H 81 is approved for use in the production of consumer goods used for food contact.
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 Directive 67/548/EEC and Regulation (EC) 1272/2008.