DEUREX® T 4911 M

TECHNICAL INFORMATION

Chemical description: Micronized Fischer-Tropsch wax
Production process: Air classification process
Applications:
- Paints and coatings
  - Powder coatings, can coatings, industrial and wood coatings
- Printing inks
  - Gravure, flexo and overprinting inks

Properties:
- High melting point
- Excellent abrasion and scratch resistance
- Very good chemical and weather resistance
- Improved UV resistance

Benefits:
- Guaranteed maximum particle size and constant and narrow particle size distribution
- Easily dispersible without lump or coagulate formation
- Increased colour output in masterbatch application whilst decrease amount of wax

Technical data:

<table>
<thead>
<tr>
<th>Property</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particle size*:</td>
<td>98 % &lt; 11 µm</td>
<td>50 % ~ 5 µm</td>
<td>LV 5 (DIN ISO 13320)</td>
</tr>
<tr>
<td>Typical value:</td>
<td></td>
<td></td>
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<tr>
<td>Drop point*:</td>
<td>112 °C</td>
<td>120 °C</td>
<td>LV 12</td>
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<tr>
<td></td>
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<td></td>
<td>(DGF M-III 3)</td>
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<tr>
<td>Penetration:</td>
<td>1 mm*10^-1</td>
<td></td>
<td>LV 4</td>
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<tr>
<td></td>
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<td>(DIN 51579)</td>
</tr>
<tr>
<td>Density (23 °C):</td>
<td>0.94 g/cm³</td>
<td>0.95 g/cm³</td>
<td>LV 3</td>
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<td></td>
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<td>(DIN ISO 1183)</td>
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</tbody>
</table>

* Part of certificate of analysis

Approvals:
DEUREX® T 4911 M is approved for the production of commodities intended to come into contact with food.
EU: Regulation (EU) 10/2011 dated 14th January 2011 – Ref.-No.: 80000
BRD: BfR recommendation XXV
USA: FDA 21 CFR §§ 175.105; 175.250; 175.300; 175.320; 176.170; 176.180; 177.1200; 177.1390
(Approvals with regard to limitations and migration values in the final application)

Alternative delivery forms:
DEUREX® T 49 G – Granules
DEUREX® T 49 K – Fine granules
DEUREX® T 4915 M – Micronized powder, 98% < 15 µm
DEUREX® TO 8120 M – Hydrophilic oxidized FT-wax, 98% < 20 µm