DEUREX® EO 40 K

TECHNICAL INFORMATION

Chemical description:  Oxidized LDPE wax

Applications:  PVC and other plastics
  - Can be used in all U-PVC and P-PVC applications but also in C-PVC

Properties:  Partially internal and external wax, highly effective which
  - Accelerate fusion,
  - Increase torque and pressure
  - Synergistic effect in combination with non-polar PE waxes
    by reduction of melt viscosity

Typical dosages:  Depending on the rheological requirements
  - Up to 0.3 phr for PVC
  - Up to 1.5 phr for C-PVC

Typical properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penetration</td>
<td>5.0 $\text{mm} \times 10^{1}$</td>
<td>10.0 $\text{mm} \times 10^{1}$</td>
<td>LV 4 (DIN 51579)</td>
</tr>
<tr>
<td>Viscosity (140 °C)</td>
<td>120 mPas</td>
<td></td>
<td>LV 2 (DIN EN ISO 3104)</td>
</tr>
<tr>
<td>Drop point*</td>
<td>98 °C</td>
<td>112 °C</td>
<td>LV 12 (DGF M-III 3)</td>
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<tr>
<td>Density (23 °C)</td>
<td>0.96 g/cm³</td>
<td></td>
<td>LV 3 (DIN EN ISO 1183)</td>
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<tr>
<td>Acid value</td>
<td>15 mgKOH/g</td>
<td></td>
<td>DIN EN ISO 2114</td>
</tr>
</tbody>
</table>

*Part of certificate of analysis

Approvals:

DEUREX® EO 40 K is approved for the production of commodities intended to come into contact with food.

USA:  FDA 21 CFR §§ 175.105, 175.300, 176.170, 176.180,
(Approvals with regard to limitations and migration values in the final application)

Additional lubricants:

- DEUREX® E 11 K – Homopolymered PE-Wachs
- DEUREX® EO 44 K – Oxidized HDPE wax
- DEUREX® T 39 K – Fischer Tropsch wax
- DEUREX® TO 80 G – Oxidized Fischer Tropsch wax (Hardparaffin)

Alternative delivery form:  DEUREX® EO 4001 W – Water-borne HDPE emulsion