SELVOL™ E 605 Polyvinyl Alcohol

DESCRIPTION

SELVOL™ E 605 is a low viscosity partially hydrolysed polyvinyl alcohol.

COMMERCIAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Test</th>
<th>Specification</th>
<th>Method</th>
<th>Internal Reference</th>
<th>International Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity(^{(a)}) (cps)</td>
<td>4.0 – 5.0</td>
<td>Brookfield</td>
<td>IT 06-06-225 P</td>
<td>ISO 2555</td>
</tr>
<tr>
<td>Degree of Hydrolysis Mol %</td>
<td>78.5 – 82.0</td>
<td>Titration</td>
<td>IT 06-06-224 P</td>
<td></td>
</tr>
<tr>
<td>Ash(^{(b)}) Wt %</td>
<td>0.5 Max.</td>
<td>ISE</td>
<td>IT 06-06-200 P</td>
<td></td>
</tr>
<tr>
<td>Volatile Wt %</td>
<td>5.0 Max.</td>
<td>Drying</td>
<td>IT 06-06-221 P</td>
<td></td>
</tr>
<tr>
<td>pH(^{(c)})</td>
<td>4.5 – 6.5</td>
<td>Potentiometry</td>
<td>IT 06-06-226 P</td>
<td>ISO 976</td>
</tr>
</tbody>
</table>

(a) Of a 4% aqueous solution at 20°C  (b) Expressed as Sodium Oxide  (c) Of a 4% aqueous solution

GENERAL PROPERTIES

Appearance....................................................................................................................................... Off white granular solid
Refractive Index \(n_D^{20\circ C}\) ................................................................................................. 1.52 -1.55
Specific gravity........................................................................................................................................ 1.27 - 1.31
Specific heat (J/g K)........................................................................................................................... 1.65 - 1.67
Thermal conductivity (W/m C) ............................................................................................................. ~2
Mean coefficient of thermal expansion at 0-45°C (x 10\(^{-5}\) / °C) ........................................... 7-10
Glass transition temperature (°C) ...................................................................................................... 58
Melting point (°C) ............................................................................................................................... 180
Light stability........................................................................................................................................ Excellent
Electrical resistivity (Ω cm x 10\(^{7}\) ) .............................................................................................. 3.1 - 3.8

PACKAGING

SELVOL™ E 605 can be made available in the following packaging:

- 25 Kg Antistatic Polyethylene bags palletised on CP1 pallets 1.25 TM (shrink wrapped or stretch wrapped) 4 way entry pallets.
- 500 Kg and 1000 Kg Polypropylene Rafia Big Bag palletised on 90 x 90 cm (stretch wrapped) 4 way entry pallets.
- Bulk transportation vehicles 20 - 25 TM Maximum.
- Other packaging may be available on request.

STORAGE

SELVOL™ E 605 Polyvinyl alcohol stored in dry conditions in his original packaging has a shelf life of five years.
TRANSPORT

Not regulated.

HEALTH, SAFETY, ENVIRONMENT

Please refer to the SELVOL™ Material Safety Data Sheet for the product.

OTHER INFORMATION

- Customs Tarif No: 3905.3000.
- Polyvinyl alcohol is registered in the following inventories: AICS (Australia), CEPA DSL (Canada), TSCA (United States), MITI (Japan), AUSTRIA, CHINA, PHILIPPINES and SOUTH KOREA.
- CAS NUMBER: 25213-24-5

FOOD CONTACT STATUS

SELVOL™ E 605 conforms to various FDA and BfR regulations for use in food contact applications. The user should check the regulation corresponding to the proposed application, in order to verify that the SELVOL™ grade to be used is within the specified limitations. For more details the user is invited to contact our customer service department.

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Revision 1. October 2015