®Vinnolit P 70 PS

PVC for paste application

Brief Description

®Vinnolit P 70 PS is a fine grained homopolymer for plastisol processing giving medium-viscosity plastisols with an excellent shelf life.

Pastes made with Vinnolit P 70 PS show a moderate pseudoplastic rheology at low shear rates and a moderate dilatant flow behaviour at higher shear rates, which becomes more pronounced at low plasticizer level. This dilatant behaviour can easily be reduced by blending with Extender grades, like Vinnolit EXT (see diagram) or by blending with special emulsion grades.

Due to its very low emulsifier content the product shows a very low moisture absorption making it ideally suited for outdoor applications.

Thin plastisols of Vinnolit P 70 PS in combination with special Emulsion resins show excellent properties for dip coating (Foulard) of e.g. textile substrates.

![Diagram showing shear gradient and paste viscosity at 23°C, 1h after mixing]

<table>
<thead>
<tr>
<th>Raw Material Properties</th>
<th>Typical Value*</th>
<th>Unit</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DIN EN</td>
<td>ISO</td>
</tr>
<tr>
<td>K-value</td>
<td>70</td>
<td>-</td>
<td>1628-2</td>
</tr>
<tr>
<td>Reduced viscosity</td>
<td>124</td>
<td>ml/g</td>
<td>1628-2</td>
</tr>
<tr>
<td>Apparent bulk density</td>
<td>0.350</td>
<td>g/ml</td>
<td>60</td>
</tr>
<tr>
<td>Particle size distribution: sieve retention retained on 0.063 mm screen</td>
<td>(\leq 1.0)</td>
<td>%</td>
<td>53195</td>
</tr>
<tr>
<td>Volatile matter</td>
<td>(\leq 0.3)</td>
<td>%</td>
<td>-</td>
</tr>
<tr>
<td>Emulsifier content</td>
<td>extremely low</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

* The values given above are typical test results which should be used as a guide only. They do not form the whole or part of a specification or guarantee.

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Processing and Application

Plastisols based on Vinnolit P 70 PS can be easily processed by all common technologies. Any dilatancy can be easily reduced or even removed by either blending with extender resins, such as Vinnolit EXT, or by blending with a suitable specialty emulsion PVC (e.g. Vinnolit E 70 TT or E 70 CQ etc.).

The excellent thermostability, low moisture absorption and good deaeratibility make Vinnolit P 70 PS ideally suited for use in outdoor applications. It is recommended for coating of technical textiles such as tarpaulins, awnings, roofing sheets, textile constructions, conveyor belts etc.

Unpigmented coatings made from Vinnolit P 70 PS containing the appropriate stabilizer are crystal clear and have a very glossy surface. Apart from being used in the applications mentioned in the brief description above, Vinnolit P 70 PS can be used for thin transparent coatings.

The Core Properties of Vinnolit P 70 PS are:

- high transparency, clear films
- glossy homogeneous surface
- neutral colour and good thermostability
- low water absorption
- good weathering properties
- perfect adhesion on textile substrates
- good potlife and storage stability
- fine particles, moderate yield point for dip coating
- high bath stability of thin plastisols

Packaging, Delivery and Storage

The product is supplied in 25 kg bags as well as in bulk form.

Vinnolit P 70 PS should be stored dry and away from direct or indirect sources of heat. Please consult the safety data sheet for information about the safety precautions necessary for transport, storage, blending and processing.

General Information

Further processing information and recommendations can be obtained from our Technical Service department or our local representatives.

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