Carfil® 9221

Aqueous Polyurethane Dispersion

Technical Data Sheet

Name: Carfil® 9221
Revision Date: 2018-7-25

Product Description

INCI Name: Polyurethane-35

Carfil® 9221 functions as a film former for personal care products such as mask, mascara and eyeliner. Carfil® 9221 is easy to use, especially suitable for cold processes. The product also shows good compatibility with a broad range of cosmetic ingredients. Preservative: 2-phenoxyethanol 6500-7500 ppm and 1, 2-Octanediol 2500-3500 ppm. The effects of other substances and pH values on the inactivation of preservative should be noted.

Properties

1. Outstanding water resistance
2. Non-greasy and non-sticky feel on skin
3. Good film-formation
4. Easy to remove

Characteristic data*

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Milky white emulsion</td>
<td></td>
<td>Visual</td>
</tr>
<tr>
<td>Solids</td>
<td>39-41</td>
<td>wt%</td>
<td>WHPU/T011-571-2017 (5cm 150°C,20min)</td>
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<tr>
<td>pH</td>
<td>7.0-9.0</td>
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<td>GB/T 6920-1986</td>
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<tr>
<td>Viscosity(25°C)</td>
<td>≤300</td>
<td>mPa·s</td>
<td>GB/T2794-2013</td>
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<tr>
<td>MFFT</td>
<td>0</td>
<td>°C</td>
<td>GB/T9267-2008</td>
</tr>
</tbody>
</table>

*These properties are typical but do not constitute specifications.

Storage

The product should be stored in dry condition between 5~35°C with the integrity of the packaging, and prevented from direct sunlight. The validity of this product is for 9 months, performance assessment is recommended before use after shelf life. The
product should be protected from freezing during storage. It is suggested to filter before application and use up once the package is open.

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