Leasys® 3451
Aqueous Polyurethane Dispersion

Technical Data Sheet

Name: Leasys® 3451
NO. WHSM_3451
Revision Date: 2019-05-16
Version: 1.1

Product Description

Leasys® 3451 is an aqueous anionic aliphatic polyurethane dispersion. It is a raw material for the formulation of heat activated adhesives. It can be used as one component. Solvent: <5000ppm acetone. It’s APEO, organotin and organic amine neutralizing agent free. Biocide: CMIT/MIT 3:1 14ppm and MBIT 200ppm.

Properties

Outstanding brushability
Excellent initial heat resistance
Excellent initial tacky property
Excellent water resistance

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 liquid</td>
<td></td>
<td>WHPU/T011-817-2017 (5cm,150°C,20min)</td>
</tr>
<tr>
<td>Weight Solids</td>
<td>49±1.5</td>
<td>%</td>
<td>GB/T 14518-1993</td>
</tr>
<tr>
<td>pH</td>
<td>6.0-9.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>3000-8000</td>
<td>mPa.s</td>
<td>GB/T 2794-2013 (Brookfield,LV63#,12rpm,25°C)</td>
</tr>
<tr>
<td>Density</td>
<td>1.02-1.09</td>
<td>g/cm³</td>
<td>GB/T 4472-2011</td>
</tr>
<tr>
<td>Activated temperature</td>
<td>45-55</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>MFFT</td>
<td>Approx. 5</td>
<td>°C</td>
<td>GB/T 9267-2008</td>
</tr>
</tbody>
</table>

*These properties are typical but do not constitute specifications

Storage

Leasys® 3451 should be stored in dry conditions above 5°C and below 35°C with the integrity of the packaging, and prevent direct sunlight. The validity of this product is for 6 months, performance assessment is recommended before use after shelf life.
Leasys® 3451 freezes at temperatures below 0°C and this will cause irreversible damage. The product should therefore be protected from freezing during storage.

Wanhua Chemical Group Co., Ltd.
Leasys® 3451

properties of the emulsion may change as a result of storage time and storage conditions. This can lead to deviations from the given specifications. Skins and Lumps can form during storage and transport of the dispersion due to its film forming nature. A filtration or sieve process is recommended before further processing.

Disclaimer: Wanhua Chemical Group Co., LTD. recommends that any customers of this material should check with Materials Safety Data Sheet (MSDS) for details about safely handling this material. We also suggest that you contact the suppliers of any other materials used in our recommended formulations and suggestions for appropriate health and safety regulations prior to use. The information contained herein is believed to be reliable. However, nothing in this technical sheet should be considered as a representation of warranty, express or implicit, regarding the product characteristics, application, quality, safety, merchantability or fitness for a particular purpose. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.