Adwel® 1390

Acrylic copolymer emulsion

Technical Data Sheet

Name: Adwel® 1390
Revision Date: 2017-06-20
NO.AD_036
Version: 1.0

Product Description

Adwel® 1390 is a ready-to-use, waterborne acrylic adhesive designed for the manufacture of flexible film laminates in food packaging. With its high bonding strength, it is also recommended for non-food applications where similar substrates and performance are required. Biocide: CMIT/MIT 0.049‰ and MIT 0.240 ‰.

Properties

1. High bonding strength
2. Good construction properties
3. Good film clarity
4. Environmental friendly

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>Visual</td>
</tr>
<tr>
<td>Weight Solids</td>
<td>42±1</td>
<td>%</td>
<td>WHPU/T011-817-2017 (5cm,150°C,20min)</td>
</tr>
<tr>
<td>pH</td>
<td>3-9</td>
<td></td>
<td>GB/T 14518-1993</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&lt;100</td>
<td>mPa·s</td>
<td>GB/T 2794-2013 (Brookfield,LV,62#,60rpm,25°C)</td>
</tr>
<tr>
<td>Density</td>
<td>1.04-1.09</td>
<td>g/cm³</td>
<td>GB/T6750-2007</td>
</tr>
</tbody>
</table>

*These properties are typical but do not constitute specifications.

Handling and Precautions

1. If the product needs to be diluted, deionized water must be used; if not, flocculation or demulsification may occur;
2. When using Adwel® 1390, the recommended dry glue amount is 1.8~2.4g/m² and the films should be treated by corona before use (surface energy no less than 38 dyne); on-line corona treatment of the substrates is recommended and can typically increase the initial and final bonding strength;
3. When using Adwel® 1390, the initial bonding strength of the laminated film may vary according to different materials; usually good bonding strength will be achieved immediately off machine, but after RT curing 24 hours the bonding strength will be better;

4. Due to the different lamination process and materials, pretests always should be carried out.

Storage
The product 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 12 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.

Disclaimer: Wanhua Chemical Group Co., LTD. recommends that customers should check with Materials Safety Data Sheet (MSDS) for details about safety instructions. We also suggest that you contact the suppliers of other materials used in our recommended formulations and consult 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.

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