Crack measurements
Quantification using scanner

Mars 2012

Cracking can occur when folding paper or during creasing of board in the converting process.

The folding makes the coating and colour layer to crack and the visual impression of the box or sack becomes less attractive.

Finding the right balance between binder content (cost) and crack resistance (performance) is a hard task without reliable methods to measure cracking tendencies.

Reasons to use this software

- This tool makes it possible to measure the crack tendency in an effective, reliable, fast and intuitive way, using an affordable standard flatbed scanner
- The method can be a reliable and valuable tool for quality control
- Insures that the optimal coating formulation is used for each application

Example

<table>
<thead>
<tr>
<th>Coating type</th>
<th>Folding</th>
<th>Creasing</th>
</tr>
</thead>
<tbody>
<tr>
<td>type 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>type 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example of different crack tendency for two different coatings
How this is done and what you get

The sample is first scanned, the crack software calculate the crack statistics and the results is saved to a result file.

The calculated numbers are saved as ASCII-files for import to Excel or other software

Calculated results from the samples on the first page

The average crack area is one of the calculated parameters

Opportunities

- We can make the measurements on commission basis
- You can buy the software from us and make the measurement in your own lab
  The needed equipment is: A flatbed scanner and the crack measurement software
- We can advise you to find an optimal coating colour composition when balancing cracking resistance vs. material costs

Contact

For more information about the method, prices etc. contact:

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