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Curtain coating weight test

Scope

The objective is to establish an easy and accurate method of measurement of the wax pick-up at the curtain coater.

Safety precautions

Extreme danger of burns to hands and eyes.

Content

The proposed method uses the following procedures:

1. *Enter all data pertinent to the test on the information sheet.*
 - i.) Production data
 - ii.) Wax temperature readings
 - iii.) Control settings

The information sheet appears as part of this TI Paper and may be photocopied in order to conduct this test.

2. *Uncoated sample weighing.*

Weigh the uncoated 21.60 cm x 27.96 cm (8.5 x 11 in.) information sheet to the nearest hundredth (0.01) of a gram and record it on the information sheet. By using the same paper grade (i.e., photocopier paper) the converter will find it to be part of a more or less constant weight.

3. *Sample coating.*

Tape the information sheet face down on a carrier board; feed through curtain coater and carefully remove the tape. Tape should be used with as small an edge as possible actually contacting the information sheet.

4. *Coated sample weighing.*

Again reweigh the information sheet and record the weight on the information sheet.

5. *Curtain coating wax pickup calculation.*

Subtract the uncoated weight from the coated weight and multiply the result by a factor of 3.395 to obtain the curtain coating weight in lb/1000 ft² (conversion to g/m²: multiply by 4.8824). A computation table (Table1) can be used. Record the result as the curtain coating weight.

6. *Filing and testing frequency.*

Information sheets should be filed for future reference. Testing should be done ideally for each production job or at least once per production shift.

Keywords

Wax, Curtain coating

Additional information

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Documents

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