

METRO USERS 2009

Tembec – Pine Falls



Tembec

CRITICAL NEWSPRINT PROPERTIES FOR OPTIMAL PRESS OPERATION

Sheet Strength

- A stronger sheet will help compensate for sheet defects and reduce web breaks.
- A stronger sheet will help reduce web breaks compensating for tension control issues.
- MD/CD Tensile is a critical parameter for paper manufacture and press performance.

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Critical Newsprint Properties for Optimal Press Operation

Sheet Smoothness

- Top and bottom sheet smoothness can affect ink lay-down and can contribute to an offsetting problem.
- A very smooth sheet can skate on a press making it difficult to register.
- Typically top-side of sheet is slightly smoother than bottom-side.
- Sheet smoothness can vary depending on paper machine of manufacture.

Critical Newsprint Properties for Optimal Press Operation

Roll Build

- **Wound in tension and torque during roll build can affect rolls out of round. Out of round rolls can contribute to registration problems.**
- **Good starts at the core are critical for paste efficiency.**
- **Properly build roll will lessen impact of handling and transportation.**

Critical Newsprint Properties for Optimal Press Operation

Optical Properties

- **Brightness**
- **Opacity – Higher opacity can help reduce show through.**
- **L* A* B* Sheet Shade**
- **Dirt count**
- **Reversion**

Critical Newsprint Properties for Optimal Press Operation

Sheet Formation

- **Sheet moisture profile.** Moisture set point and evenness across the web. Uneven moisture profile can impact registration and can exhibit streaks in the paper.
- **Basis weight profile.** Basis weight set point consistent across the web. Light or heavy spots across the web can impact registration.
- **Porosity.** How open or porous the sheet impacts water/ink absorption.
- **Fibers must be well bonded to the surface of the sheet.** Can impact propensity to lint.

Critical Newsprint Properties for Optimal Press Operation

Sheet Defects

- Holes
- Wrinkles
- Cuts
- Corrugation
- Creases in sheet or fold over.

Critical Newsprint Properties for Optimal Press Operation

- Photos of lint buildup

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