

# Case Study: Folding Box Board Outer Ply

Filler increase, chemical pulp reduction and improved coating hold-out

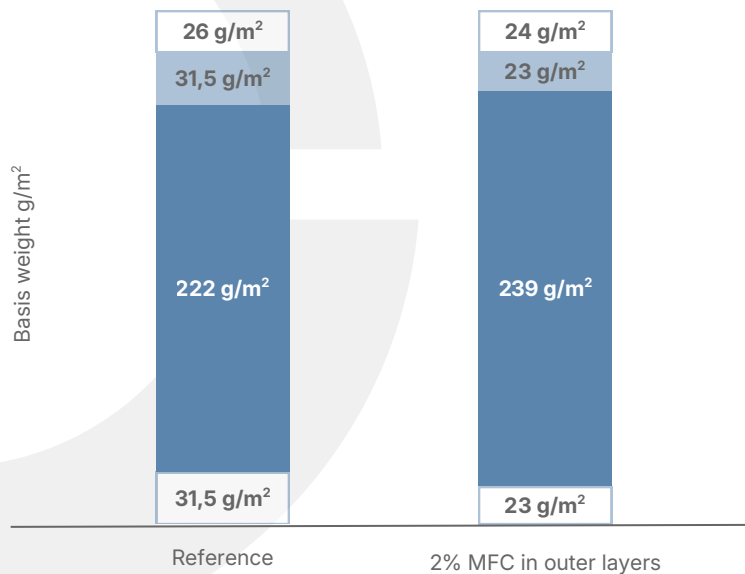
## Background:

- Coated FBB grade
- Outer layer filler content increased
- Grammage moved from outer to middle layer
- MFC produced with G250 grinder using eucalyptus pulp

## Trial Objectives:

- Reduce chemical pulp usage by moving grammage from outer to middle layer
- Improve coating hold-out
- Maintain specification

## Trial Results



## Trial Outcomes:

- ✓ **2% MFC** and **+10% filler** added to both outer layers
- ✓ Outer layer grammage reduction, **-8.5 g/m<sup>2</sup>** for each
  - ✓ **Middle** layer grammage increased by **17 g/m<sup>2</sup>**
  - ✓ **34%** reduction of **chemical pulp** use
- ✓ Maintained specification and process parameters at lower cost
  - ✓ **50%** ply bond **starch reduction**
- ✓ **1 pph latex** pre-coat reduction and **2 g/m<sup>2</sup>** coat weight reduction
  - ✓ Estimated **20-35 EUR/t cost saving**



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