

## Case Study: MFC in White Top Liner

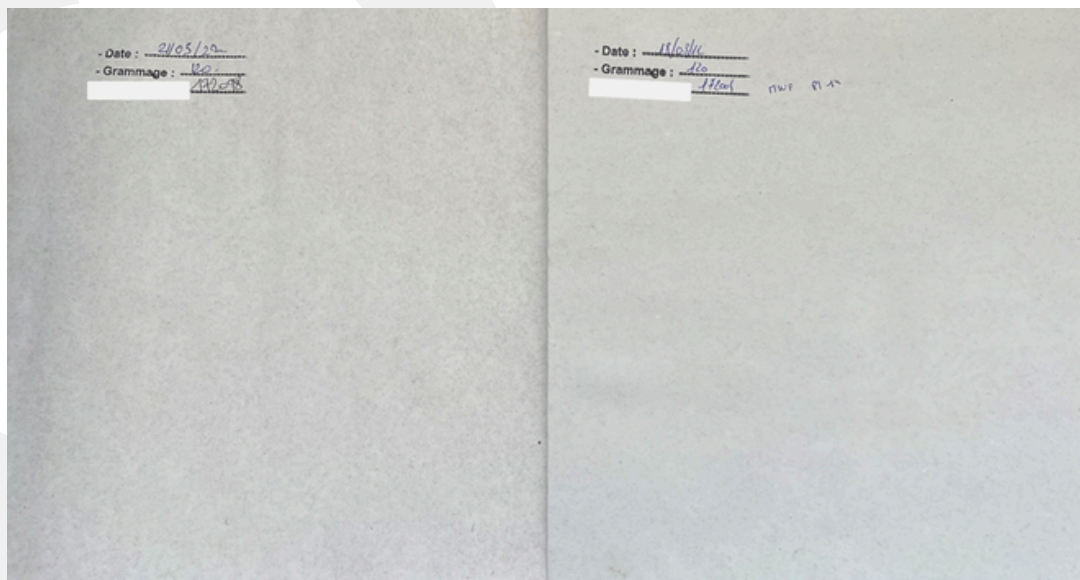
Filler increase & lightweighting (white layer)

### Reference case:

- 120 g/m<sup>2</sup> two-layer recycled white top liner
  - 38 g/m<sup>2</sup> white layer
  - 20% filler in white layer
  - 0% MFC in white layer

### With FiberLean G250 grinder produced MFC:

- 120 g/m<sup>2</sup> two-layer recycled white top liner
  - 42 g/m<sup>2</sup> white layer
  - 44% filler in white layer
  - 6% MFC in white layer



### Outcomes:

- ✓ **+6% MFC** in top layer, **+24% filler** in top layer, **+4 g/m<sup>2</sup>** basis weight in top layer
- ✓ **20% reduction** of white layer fibre consumption
  - ✓ **Brightness increased** by 1% (abs. Units)
    - ✓ Calmer / less mottled surface
  - ✓ Mechanical properties maintained
  - ✓ Process parameters unchanged
  - ✓ Estimated **10-20 EUR/t cost savings**



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