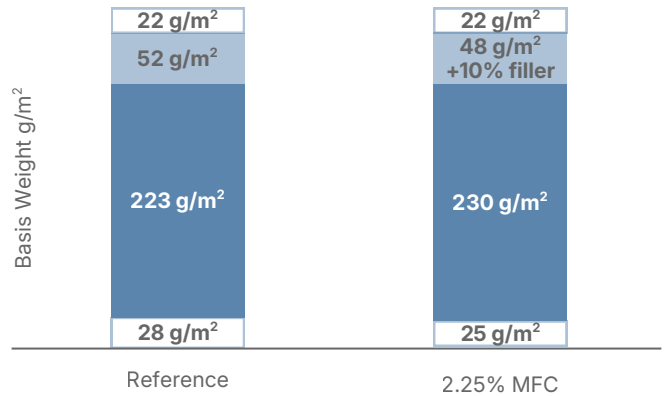


Case Study: Folding Box Board Outer Ply

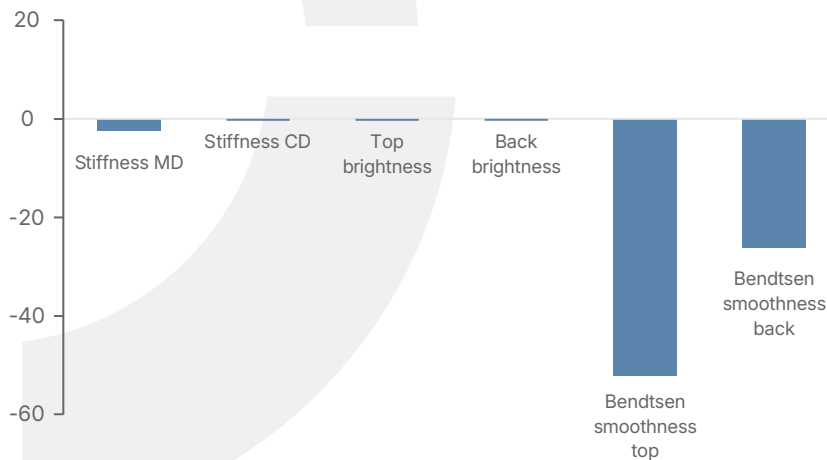
Filler increase and chemical pulp reduction

Background:

- Coated FBB grade
 - 2.25% MFC added to both outer layers
 - Outer layer filler content increased
- Grammage moved from outer to middle layer
 - MFC produced with G250 grinder using eucalyptus pulp



Trial Results



Trial Outcomes:

- ✓ **2.25% MFC** added to both outer layers
- ✓ **+10% filler** in each outer layer
- ✓ **Top** layer grammage reduced by **4 g/m²**
- ✓ **Back** layer grammage reduced by **3 g/m²**
- ✓ **Middle** layer grammage increased by **7 g/m²**
 - ✓ **18%** reduction of **chemical pulp** use
 - ✓ Maintained stiffness and brightness
 - ✓ Significantly improved smoothness
 - ✓ Estimated **15-20 EUR/t cost saving**



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