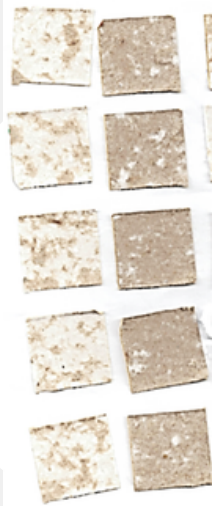


Case Study: MFC in White Top Liner Lab Study

Improved surface strength & ply-bond while increasing filler

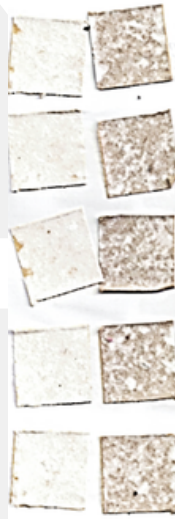
Trial Results

Reference



- Top Layer: 40 g/m², 0% MFC, 26% filler
- Base Layer: 90 g/m², 0% MFC

Failure in Top Layer (no MFC)



- Top Layer: 40 g/m², 0% MFC, **38.5% filler**
- Base Layer: 90 g/m², 0% MFC

Pass in Top Layer (+4% MFC)



- Top Layer: 40 g/m², **4% MFC**, **38.5% filler**
- Base Layer: 90 g/m², 0% MFC

Study Outcomes:

- ✓ Reference case showed delamination at the interface between white and brown layers.
 - ✓ Filler increase with no MFC addition showed delamination in the white layer.
- ✓ Filler increase with 4% MFC addition in the white layer showed delamination in the base layer.
 - ✓ MFC gave improved surface strength and ply bond while enabling cost savings through replacing fibre with filler.
 - ✓ Estimated 10-12 EUR/t cost saving.



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