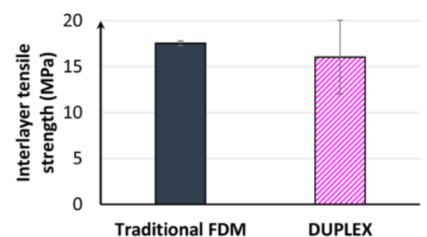
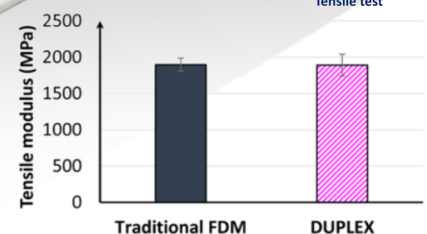
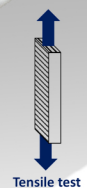
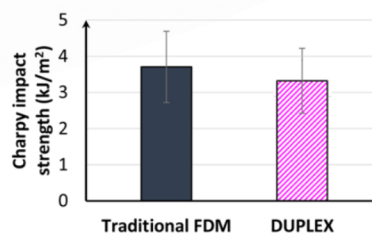
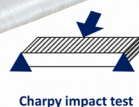


Academic assessment of DUPLEX's 3D printing process

DUPLEX F2 is a unique 3D printer based on the company's MAP technology that enables simultaneous building of the same part using independent print heads positioned in opposite directions facing each other in the printer's build chamber.

For independent measurements of the F2's printed parts, the company has contacted the Faculty of Polymer Technology at the Budapest University of Technology and Economics. Their measurements on a kayak paddle part are published on this page.



Mechanical properties

Tensile test results showed that two-way 3D printing causes only a slight reduction in the interlayer strength, and the modulus remains unchanged.

Charpy impact tests also showed a slight reduction in average impact strength, although the difference is not considered significant due to overlapping scatter fields.