



Benefit from a revolutionary technology

FluidSolids is an innovative technology developed in Switzerland to produce biodegradable composite materials. As it uses residuals and waste materials, its environmental impact is minimal. Biocomposites made using the FluidSolids technology feature exceptional mechanical properties, making them suitable for use in countless application areas.

Data	Unit	FluidSolids® Range	Standard black	Standard white
Formulation			F3dB4-S3K1-C12	F10aB4-S8-C2b
Prod. of specimen	ISO 527-2		Injection Molding	Injection Molding
Density	g/cm ³	0.9 - 1.8 *	1.47	1.45
Young Modulus	N/mm ²	5000 - 11000 *	7750	8260
Flexural Modulus	N/mm ²	20.0 - 150.0 *	8080	8480
Max Tensile Stress	N/mm ²	20 - 100 *	59	76.2
Max Tensile Strain	%	0.5 - 3 *	0.92	1.3
Impact Strength	KJ/m ²	5 - 30	8	12
UV Resistance	Acc. DIN-EN-ISO 4892-3	passed	passed	passed
Heat resistance	Acc. DIN-EN-ISO 75-1	75 -90°C	81°C	84°C
Toxic Emissions		none	none	none
LCA Screening		available	available	available
Colors		on demand *	anthracite	Off-white
Fibres		on demand *	softwood	cellulose
Surface		structured - glossy *	tool - dependent	tool - dependent

* adaptable

Extremely tough

FluidSolids® biocomposites have all the typical advantages of composite materials. Their high fiber content gives the material a high flexural strength and Young-Modulus. This means components can be made more efficient and wall thicknesses become thinner, resulting in less weight.

Kind to the environment

In comparison with other plastics – whether bio-based or not – the biocomposites from FluidSolids are a cut above the rest in terms of total environmental impact and become a key factor in the pursuit of your sustainability goals.

Open to your wants and needs

FluidSolids® properties, such as density, elasticity, strength, product surface and colouring can be tailored to suit your individual requirements. This way, any product made of FluidSolids® looks exactly as intended by its creator.

Designed for mass production

The material can be processed using traditional industrial mass production processes. Components can be manufactured using your existing machinery, since processing parameters are within the normal industry range. There is no need for any investment in new or additional machinery.