suter-kunststoffe ag
swiss-composite.ch

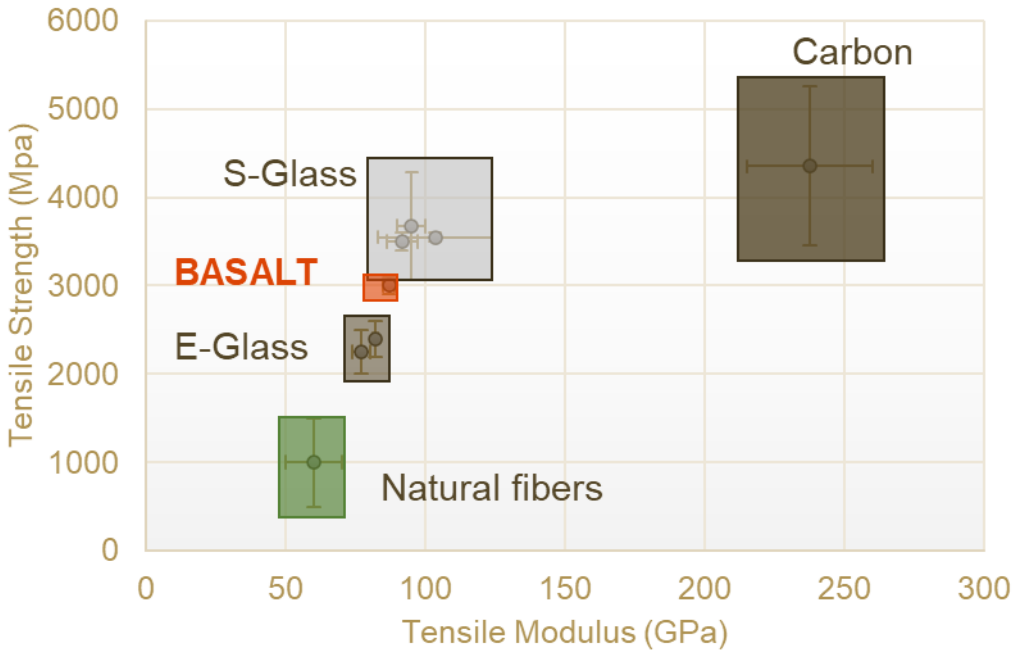
BASALTEX®
The thread of stone

Composites properties
Comparison

09/05/2023

Comparison of BASALT fiber mechanical properties in COMPOSITES:

- Stronger and stiffer than E-glass
- Close to S-glass
- Much higher than natural fibers (flax)



Resin impregnated strands			ASTM D2343 or ISO 9163
	Density (g/cm3)	Tensile Modulus (GPa)	Tensile strength (MPa)
BASALT	**2,68**	**87**	**3000**
E-GLASS	2,56	77	2250
CARBON	1,81	238	4350
FLAX	1,4	60	1000

Based on average public data – TDS - literature

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