

Innovative Customized UD Tapes from A+ Composites:

Enhancing Manufacturing Efficiency and Customer Satisfaction

A+ Composites – Company facts



Founded in 2015 from the Leibniz Institute for Composite Materials (IVW)



Manufacturer of UD tapes

Unique quality assurance system

Located in Rhineland-Palatinate

Customization of UD tapes

Slitting & preforming of UD tapes

Patented technology

Development of tailored UD-Tapes



Selection of material combination



Selection of geometry



Specification of



Optimal tape More than 250 combinations

fiber (CF, GF, PF,AF) polymer (PP, PE, PA, PPS, PBT, PC) Hybrids (GF+AF; PP+PE)

width (3-104 mm) thickness (0.05-6 mm)fibervol. (30-75%)

biocompatible additives coloring

flame-retardant

UD tapes - material grades



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		PE	PP	PA6	PA12	PA66	PBT	PLA	PET	PC	PPS	PPA	PSU	PEI	PAEK
	Carbon HT														
	Carbon IM														
	Carbon HM														
	E Glas														
	S Glas														
	Basalt														
	Aramid														
	LCP														
	UHMWPE														
	Metal														
	Natural														
	Commerci	Commercial grade		R+D grade				Possible grade			Not possible grade				

Optimal tape

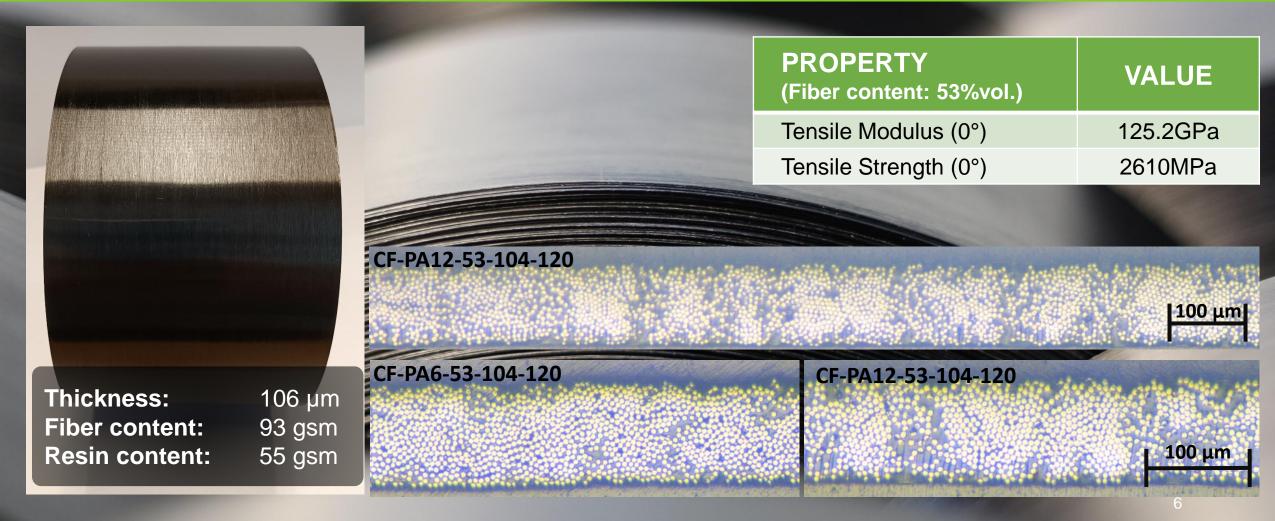
Example: UD Tapes for automated fiber placement CF-PA6





Example: Thin ply UD Tape - CF-PA





Testimonials for A+ Composites Tapes



The strength of A+ Composites is the use of industrial grade 50k large tow carbon fiber for their tape products. Based on A+ Composites' proprietary manufacturing technology they can produce high performance tapes based on industrial grade carbon fiber outperforming aerospace grade tapes.

A+ Composites is not only a technology leader in that field but also an enabler for getting thermoplastic tapes into high volume applications.

Tobias Potyra

Global Automotive Director
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