



TECHNICAL DATA SHEET



Designation - Style: **Style 462 Carbon Fabric for Aerospace Applications**
Aircraft Specification: **DIN 65147 - WL-Blatt 8.3522 (German Material Data Sheet and Aircraft Specification)**
Weight: **245 g/m²**
Weave: **2/2 Twill**

Technical Data - Fabric		Standard	Unit	Target	+/-	Tolerance
Weight		DIIN ISO 12127	g/m²	245	+/-	8
Dry Weight		DIN EN ISO 3344	g/m²	245	+/-	8
Setting	Warp	DIN EN 1049 T2	thr./cm	6,0	+/-	0,2
	Weft		thr./cm	6,0	+/-	0,2
Moisture content		DIN EN ISO 3344	%	0,5	<	-
Thickness (loomstate fabric) ¹⁾		DIN ISO 5084	mm	0,40	+/-	-
Thickness (within the laminate) ^{1), 2)}			mm	0,28	+/-	-
Width		DIN EN 1773	cm	as ordered	+/-	1

¹⁾ approximate value, not for release ²⁾ Thickness of fabric layer calculated out of laminate thickness acc. to DIN 65071-2 at 50% fvc

Technical Data - Fiber in warp and weft Acc. to WL 8.3611	Standard	Unit	Specified Fiber	+/-	Tolerance
Density	DIN 29965	g/cm ³	1,8	+/-	0,05
Linear Density (Lot mean value)	DIN 29965	tex	200	+/-	4
Filament Diameter	DIN 53811	µm	7	+/-	0,4
Sizing (to be specified during qualification)	EN ISO 10548	%	1,25	+/-	0,15
Tensile Strength (Lot mean value)	DIN 29965	MPa	3750 min		-
Tensile Modulus (Lot mean value)	DIN 29965	GPa	238	+/-	4

Laminate mechanical properties				
Laminate manufacturing		Press		
Resin / Curing / Post Curing		Acc. to WL 5.3200		
Mechanical Property	Standard	Unit	Typical Test Values ^{3), 4)}	Specified min. Mean Value acc. to WL-Blatt ^{3), 4)}
Tensile Strength / Modulus [0°]	EN-2561-B	MPa / GPa	820 / 60	660 / 55
Compression Strength / Modulus [0°]	EN-2850-A	MPa / GPa	635 / 54	460 / --
Flexural Strength / Modulus [0°]	EN-2562	MPa / GPa	795 / 49	--
ILSS [0°]	EN 2563	MPa	71 ⁵⁾	--

³⁾ Testing at R.T. ⁴⁾ normalized to 50% FVC ⁵⁾ acc. to RHV - LBA Certification & Material Qualification for Light Aircraft

Date: 28.03.2018	Version V1.1	This data sheet does not include revision service
------------------	--------------	---

