

# SIGRABOND® Chemical

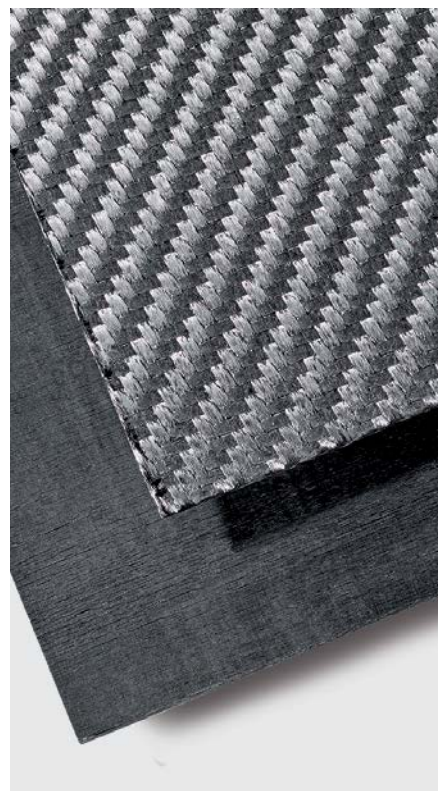
## Typical material properties

Typical properties for components and assemblies based on plate material  
[liquid distributors, collectors, support grids, retainers]

Typical properties	Units	CFRP	CFRC
Density	g/cm <sup>3</sup>	1.4	1.5
Flexural strength	MPa	400	340
Flexural modulus	GPa	50	75
Tensile strength	MPa	570	270
Tensile modulus	GPa	44	65
Failure strain	%	1.2	0.4
Max. application temperature [oxidizing/non-oxidizing atmosphere]	°C	160/160	300/1000

Typical properties for connection elements  
[nuts, bolts, screws, rods]

Typical properties	Units	CFRC
Density	g/cm <sup>3</sup>	1.5
Flexural strength	MPa	100
Flexural modulus	GPa	28
Interlaminar shear strength	MPa	11
Tensile strength	MPa	65
Tensile modulus	GPa	35
Max. application temperature [oxidizing/non-oxidizing atmosphere]	°C	300/1000



All printed values represent material properties in fiber main direction and at room temperatures; all values are typical values and should not be used for engineering purposes.



Graphite Materials & Systems | SGL CARBON GmbH  
 Sales Europe/Middle East/Africa | [pt-europe@sglcarbon.com](mailto:pt-europe@sglcarbon.com)  
 Sales Americas | [pt-americas@sglcarbon.com](mailto:pt-americas@sglcarbon.com)  
 Sales Asia/Pacific | [pt-asia@sglcarbon.com](mailto:pt-asia@sglcarbon.com)  
[www.sglprocesstechnology.com](http://www.sglprocesstechnology.com)

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