

Material Data Sheet:

(for standard materials used in Filament Winding Technology)

Application:

Filament Winding

Type of fibers:

Carbon Fiber: TohoTenax STS40¹

Type of resin:

Epoxy: Sika CR141 / CH141 / CA141²

Composite Density:

1,57 g/cm³

Fiber content:

58 %

Composite temperature resistance:

Max. 140 °C

Possible fiber orientation:

from ±15 ° up to ±88 °

Tensile E-Modulus of carbon fiber (STS40):

240 GPa

Tensile Strenght of carbon fiber (STS40):

4300 MPa

Tensile E-Modulus of epoxy resin (CR141):

3,2 GPa

Tensile Strenght of epoxy resin (CR141):

78 MPa

^{1, 2} All other fibers and resin systems possible on request.