

Structure of the test laminate

Mechanical property evaluation

- 4 layer quadraxial glass fabrics (810 g/m²)
- Resin system: Epoxy
- Fire protection system: BuReComp®

Fire protection testing

- 8 layer quadraxial glass fabrics (810 g/m²)
- Resin system: Epoxy
- Fire protection system: BuReComp®

Mechanical properties

Description	Test standard	Unit	Characteristic value
Tensile strength	DIN EN ISO 527-4	MPa	253,8
Tensile modulus in fiber direction / 0°C position	DIN EN ISO 527-4	MPa	14.394
Tensile elongation	DIN EN ISO 527-4	%	1,92
Compressive strength	DIN EN ISO 14126	MPa	284,2
Flexural strength	DIN EN ISO 14125	MPa	440,5
Flexural modulus	DIN EN ISO 14125	MPa	19.046
Bending elongation	DIN EN ISO 14125	%	2,41
Interlaminar shear strength	DIN EN ISO 14130	MPa	43,5
Density	DIN EN ISO 1183-1	g/cm ³	1,8388
Electric conductivity	DIN EN ISO 3815	Ω	8,87*10 ¹³
Volume resistivity	DIN EN 62631-3	Ω/cm	8,95*10 ¹⁴

Fire test results

Designation	Test standard	Unit	Characteristic Value
Surface flame impingement	DIN 4102/DIN EN 13501	-	No Burning after finishing examination
Edge flaming	DIN 4102/DIN EN 13501	-	No Burning after finishing examination
Back temperature measurement	IMO FTP-Code Part 3	°C	177,9
Fire types of synthetic materials	UL 94/DIN 60695	-	No Burning after finishing examination

All fire protection testings are carried out in our testing lab, based on the respective testing standards and their limit values. All test values are within the specific limit values.