

PET W FR-GFR

TECHNICAL DATA SHEET

Polyethylene Terephthalate based fire retardant structural foam cores.

			GFR70 ⁽¹⁾	FR100	FR150
Density	ISO 845	kg/m ³	70 ⁽¹⁾	100 ⁽¹⁾	150 ⁽¹⁾
Compression Strength	ISO 844	MPa	0,8	1,5	2,6
Compression Modulus	ISO 844	MPa	30	70	105
Shear Strength	ISO 1922	MPa	0,55	0,85	1,3
Shear Modulus	ISO 1922	MPa	14	20	40
Shear Strain	ISO 1922	%	15	15	8
Tensile Strength	ASTM C 297	MPa	1,6	2,4	3,4
Tensile Modulus	ASTM C 297	MPa	60	105	180
Thermal Conductivity	at 23 °C	W/mK	0,034	0,034	0,041

Fire performance ⁽²⁾

Railway Vehicles	Flammability Smoke density Dripping Toxicity (FED) Edge ignition	DIN 5510-2 DIN 5510-2 DIN 5510-2 DIN 5510-2 DIN 5510-2 / DIN 53438-2	tbd	S4 SR2 ST2 <0.1 K1	S4 SR2 ST2 <0.1 K1
Railway Vehicles Construction	Flammability Smoke density	NF F16-101 NF F16-101	M1** F1	M1*** F1	M1*** F1
Railway Vehicles	FST	EN 45545-2 ⁽³⁾	tbd	conform	conform
Aviation	Flammability Smoke density Toxicity	FAR 25.853/ABD0031 FAR 25.853/ABD0031 FAR 25.853/ABD0031	tbd	fulfilled fulfilled fulfilled	tbd tbd tbd
Construction	Contribution to fire Smoke production Flaming droplets	EN 13823 EN 13823 EN 13823	tbd	D s2 d0	tbd tbd tbd

Tolerances	Length	Width	Diagonal	Thickness
Dimensions (mm) ⁽⁴⁾	2.448	1.008	⁽⁵⁾	5–150mm
Tolerances (mm) at room temperature	+/- 5	+/- 5	≤ 4	≤ 100mm: +/- 0,5 ≥ 100mm: +/- 1

⁽¹⁾ Preliminary data March 2017

⁽²⁾ Tolerances: +/- 5 kg/m³

⁽³⁾ For detailed test results and certificates please contact us.

⁽⁴⁾ Final sandwich design to be tested.

⁽⁵⁾ Standard dimension. Further dimensions on special request.

⁽⁶⁾ Depending on length and width combination.

** Tested at 20 mm. *** As of 15 mm.

All values are average production figures.

Our products are CFC / HFC free.

Only halogen-free flame retarded additives.

Physical properties are not affected by variances in colour.

Customs tariff code: 39.21.19.00