

PET/W GR

TECHNICAL DATA SHEET

Polyethylene Terephthalate based structural foam cores. Made from 100% post-consumer PET.

			GR70	GR80	GR100	GR115	GR135	GR150	GR200	GR250	GR320 ⁽¹⁾
Density	ISO 845	kg/m ³	70 ⁽²⁾	80 ⁽²⁾	100 ⁽²⁾	115 ⁽²⁾	135 ⁽²⁾	150 ⁽³⁾	200 ⁽³⁾	250 ⁽³⁾	320 ⁽³⁾
Compression Strength	ISO 844	MPa	0,75	1,0	1,5	1,8	2,3	2,6	4,0	5,3	7,0
Compression Modulus	ISO 844	MPa	40	57	77	90	105	120	175	235	320
Shear Strength ⁽⁴⁾	ISO 1922	MPa	0,5	0,6	0,75	0,95	1,2	1,35	1,75	2,0	2,1
Shear Modulus ⁽⁴⁾	ISO 1922	MPa	13	16	21	26	35	37	51	70	90
Shear Strain ⁽⁴⁾	ISO 1922	%	15	13	10	10	7	7	5	3	2
Tensile Strength	ASTM C 297	MPa	1,8	2,0	2,5	2,9	3,0	3,3	3,9	4,3	4,8
Tensile Modulus	ASTM C 297	MPa	66	80	120	140	140	185	235	270	350
Thermal Conductivity	at 23 °C	W/mK	0,034	0,034	0,034	0,034	0,037	0,041	0,043	0,047	tbd

Fire performance⁽⁵⁾

B2	EN ISO 11925:2	tbd	B2 ⁽⁶⁾	B2 ⁽⁶⁾	B2 ⁽⁶⁾	B2 ⁽⁶⁾	B2 ⁽⁶⁾	B2 ⁽⁶⁾	tbd	tbd
----	----------------	-----	-------------------	-------------------	-------------------	-------------------	-------------------	-------------------	-----	-----

Tolerances

	Length	Width	Diagonal	Thickness
Dimensions (mm) ⁽⁷⁾	2.448	1.008	⁽⁸⁾	GR70-GR80: 10–150mm GR100-GR320: 5-150mm
Tolerances (mm) at room temperature	+/- 5	+/- 5	≤ 4	≤ 100mm: +/- 0,5 ≥ 100mm: +/- 1

⁽¹⁾ Preliminary data (indication based on a limited number of tests).

⁽²⁾ Tolerances: +/- 5 kg/m³

⁽³⁾ Tolerances: +/- 5 %

⁽⁴⁾ // direction (parallel to the weld)

⁽⁵⁾ For detailed test results and certificates please contact us.

⁽⁶⁾ As of 50mm.

⁽⁷⁾ Standard dimension. Further dimensions on special request.

⁽⁸⁾ Depending on length and width combination.

All values are average production figures.

Minimum values on request.

CEL Components PET products are CFC / HFC free.

Physical properties are not affected by variances in colour.