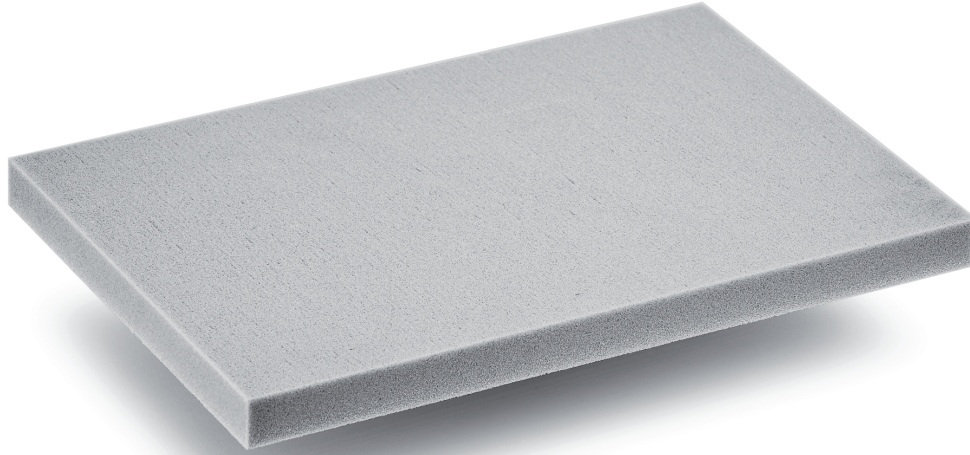


PET foam



PET foam is a thermoplastic core material suitable for a variety of sandwich applications where there is a need to increase performance and reduce weight.

Used in sandwich panels for rail and ship transport and wind energy applications. It is easy to process and has good dimensional stability at high temperatures. Suitable for a variety of processes including infusion, lamination and pressing.

Mechanical performance

Type	Test method	Units	PET 80	PET 100	PET 115	PET 135	PET 150	PET 200
Nominal density (tolerance +/- 5 kg/m ³)	ISO 845	kg/m ³	80	100	115	135	150	200
Resistenza alla compressione	ISO 844	MPa	1,0	1,5	1,8	2,3	2,6	4,0
Compressive strength	ISO 844	MPa	57	77	90	105	120	175
Shear strength	ISO 1922	MPa	0,6	0,75	0,95	1,2	1,35	1,75
Shear modulus	ISO 1922	MPa	16	21	26	35	37	51
Shear elongation at break	ISO 1922	%	13	10	10	7	7	5
Tensile strength	ASTM C 297	MPa	2,0	2,5	2,9	3,0	3,3	3,9
Tensile modulus	ASTM C 297	MPa	80	120	140	140	185	235
Thermal conductivity	a 23 °C	W/mK	0,034	0,034	0,034	0,037	0,041	0,043
Nominal sheet size		mm	2448x1008	2448x1008	2448x1008	2448x1008	2448x1008	2448x1008
Thickness		mm	10-150	5-150	5-150	5-150	5-150	5-150