

T-C Series Thermo Panel PVC Foam

T-C series PVC foams provide your panel structures with combination of highest strength, stiffness and minimal weight, as well as top thermal insulation. Taking it as a core material between two thin, stiff skins, the panel structure can be at least 50% lighter than conventional solutions.

Technical Data

Test Items	Test Standards	Unit	Typical Value	PVC40	PVC48	PVC55	PVC75	PVC90	PVC130	PVC200	PVC250
Density	ISO 845	Kg/m ³	Average Range	40	48 43-55	60 54-69	80 72-92	100 90-115	130 120-150	200 180-250	250 225-288
Compression Strength	ISO 844	N/mm ²	Average Minimum	0.45	0.60 1.50	0.90 0.75	1.45 1.10	2.0 1.7	3.0 2.6	5.2 4.5	6.6 5.3
Compression Modulus	DIN 53421	N/mm ²	Average Minimum	41	48 35	69 55	104 80	130 110	170 145	280 240	350 280
Tensile Strength	ISO 527 1-2	N/mm ²	Average Minimum	0.7	0.95 0.8	1.3 1.0	2.0 1.6	2.7 2.2	4.0 3.0	6.0 4.8	7.5 5.5
Tensile Modulus	ISO 527 1-2	N/mm ²	Average Minimum	28	35 28	45 35	66 50	84 65	115 95	175 140	230 160
Shearing Strength	ISO 1922	N/mm ²	Average Minimum	0.45	0.55 0.5	0.85 0.7	1.2 1.0	1.7 1.4	2.4 2.1	3.5 3.2	4.7 3.8
Shearing Modulus	ASTM C393	N/mm ²	Average Minimum	13	16 14	22 18	30 24	40 34	54 45	75 68	95 78
Elongation at Break	ISO 1922	%	Average Minimum	8	10 8	16 10	18 10	23 12	30 20	30 20	30 20
Thermal Conductivity at Room Temperature	ISO 8301	W/m.k	Average	0.031	0.031	0.031	0.033	0.035	0.039	0.048	0.056