

MYcell

structural core foam technical data sheet

Foam				M040	M048	M060	M080	M100	M130	M200	M250	HT060	HT080
Density	ISO 845	kg/m ³	nominal range	40 36 - 46	48 43 - 45	60 54 - 69	80 72 - 92	100 90 - 115	130 120 - 150	200 180 - 250	250 225 - 288	60 54 - 69	80 72 - 92
Compressive strength	ASTM D1621	MPa	average minimum	0,46	0,66 0,65	0,92 0,90	1,36 1,34	1,86 1,82	3,07 3,01	5,26 5,07	6,79 6,74	0,92 0,90	1,29 1,25
Compressive modulus	ASTM D1621	MPa	average minimum	36	45 38	69 61	92 79	134 115	162 147	296 262	370 326	66 55	88 84
Tensile strength	ASTM D1623	MPa	average minimum	0,71	1,03 0,88	1,54 1,44	1,92 1,80	2,69 2,26	4,2 4,04	5,27 4,57	5,69 5,13	1,62 1,38	2,11 1,81
Tensile modulus	ASTM D1623	MPa	average minimum	27	47 43	65 62	87 86	125 117	155 149	287 269	365 333	66 60	86 78
Shear strength	ASTM C393	MPa	average minimum	0,46	0,69 0,68	0,95 0,94	1,37 1,34	1,64 1,59	2,57 2,51	3,88 3,80	5,01 4,84	0,93 0,88	1,32 1,28
Shear modulus	ASTM C393	MPa	average minimum	12	15 13	19 16	28 25	35 34	48 45	66 62	95 88	20 16	26 24
Shear elongation at break	ISO 1922	%	average minimum	9	12 11	27 25	30 26	34 30	45 42	48 40	49 43	33 27	39 35
Thermal conductivity at room temperature	ISO 8301	W/mK		0,031	0,031	0,031	0,033	0,035	0,039	0,048	0,050	0,031	0,036
Water absorption		%		1	1	1	1	1	1	1	1	1	1
Standard block dimensions		mm		1330 2850 84	1270 2730 80	1150 2450 78	1020 2180 72	950 2050 68	850 1900 58	750 1600 48	700 1500 47	1120 2400 78	1005 2150 75
Colour				azure	lilac	yellow	green	red	blue	hazel brown	light green	pink	hazel brown

Fire resistance DIN5510 S4 SR2 ST2 FED <1

The reported data, derived from laboratory tests for Type Certification. They are believed to be correct.

No warranty is made on the basis of these data. Customers have to verify the data needed for the specific application, performing the necessary tests on the product. No warranty is released for any particular application. MPI KRANJ may update the data of this report. Check the last version.