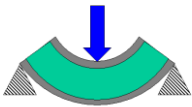
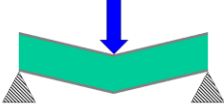
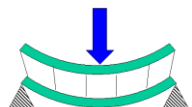


MonoPan®
Bending E-Modulus
Comparative values



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The values for the E-modulus in bending are determined for three-point-bending at a unit load of 1 N per mm panel width. Example: A 10 kg load on a panel of 100 mm width corresponds to 100 N / 100 mm = 1N/mm.

				comparative E-Modulus in bending
Span length	Bending deformation	Shear deformation	Total deformation	
mm	mm	mm	mm	N/mm ²
10-MonoPan® 0.7				
230	0,68	0,41	1,09	2786
300	1,52	0,53	2,05	3294
600	12,13	1,07	13,20	4092
1000	56,16	1,78	57,93	4315
15-MonoPan® 0.7				
230	0,29	0,27	0,56	1600
300	0,64	0,36	1,00	2000
600	5,15	0,71	5,86	2730
1000	23,83	1,19	25,02	2960
1500	80,44	1,78	82,22	3040
20-MonoPan® 0.7				
230	0,16	0,21	0,36	1043
300	0,35	0,27	0,62	1358
600	2,83	0,54	3,37	2005
1000	13,11	0,89	14,00	2232
1500	44,24	1,34	45,57	2314
25-MonoPan® 0.7				
230	0,10	0,16	0,26	735
300	0,22	0,21	0,44	987
600	1,79	0,43	2,22	1560
1000	8,28	0,71	8,99	1780
1500	27,93	1,07	29,00	1862
2000	66,21	1,43	67,64	1892
2500	129,32	1,78	131,10	1907
30-MonoPan® 0.7				
230	0,07	0,14	0,21	546
300	0,15	0,18	0,33	752
600	1,23	0,36	1,59	1260
1000	5,70	0,59	6,29	1472
1500	19,23	0,89	20,12	1553
2000	45,57	1,19	46,76	1584
2500	89,00	1,49	90,49	1599

The given values are calculated values and no experimental data. The data have been created with great care. However, they can only be used as an indication. The values are valid for MonoPan® with 80 kg/m³ honeycomb core.



MonoPan®

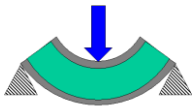
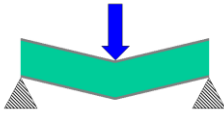
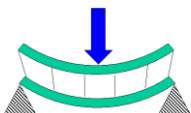
Bending E-Modulus

Comparative values



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The values for the E-modulus in bending are determined for three-point-bending at a unit load of 1 N per mm panel width. Example: A 10 kg load on a panel of 100 mm width corresponds to 100 N / 100 mm = 1N/mm.

				comparative E-Modulus in bending
Span length	Bending deformation	Shear deformation	Total deformation	
mm	mm	mm	mm	N/mm ²
15-MonoPan® 1.0				
230	0,20	0,27	0,47	1912
300	0,44	0,36	0,80	2510
600	3,53	0,71	4,24	3771
1000	16,35	1,18	17,54	4224
1500	55,19	1,78	56,97	4389
20-MonoPan® 1.0				
230	0,11	0,20	0,31	1215
300	0,24	0,27	0,51	1665
600	1,92	0,53	2,45	2753
1000	8,88	0,89	9,77	3199
1500	29,96	1,34	31,30	3370
2000	71,03	1,78	72,81	3434
25-MonoPan® 1.0				
230	0,07	0,16	0,23	840
300	0,15	0,21	0,36	1186
600	1,20	0,43	1,63	2121
1000	5,56	0,71	6,28	2549
1500	18,78	1,07	19,85	2720
2000	44,52	1,43	45,94	2786
2500	86,94	1,78	88,73	2818
30-MonoPan® 1.0				
230	0,05	0,14	0,18	615
300	0,10	0,18	0,28	889
600	0,82	0,36	1,18	1695
1000	3,81	0,59	4,41	2102
1500	12,86	0,89	13,75	2272
2000	30,49	1,19	31,68	2338
2500	59,55	1,49	61,03	2370

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The values for the E-modulus in bending are determined for three-point-bending at a unit load of 1 N per mm panel width. Example: A 10 kg load on a panel of 100 mm width corresponds to 100 N / 100 mm = 1N/mm.

				comparative E-Modulus in bending
Span length	Bending deformation	Shear deformation	Total deformation	
mm	mm	mm	mm	N/mm ²
20-MonoPan® 1.4/2				
230	0,09	0,20	0,29	1312
300	0,19	0,27	0,46	1850
600	1,52	0,53	2,05	3294
1000	7,02	0,89	7,91	3952
1500	23,69	1,33	25,02	4215
2000	56,16	1,78	57,93	4315
2500	109,68	2,22	111,90	4364
25-MonoPan® 1.4/2				
230	0,05	0,16	0,22	897
300	0,12	0,21	0,33	1303
600	0,94	0,43	1,37	2521
1000	4,37	0,71	5,08	3149
1500	14,75	1,07	15,82	3414
2000	34,96	1,42	36,38	3518
2500	68,27	1,78	70,05	3569
30-MonoPan® 1.4/2				
230	0,04	0,14	0,17	652
300	0,08	0,18	0,26	967
600	0,64	0,36	1,00	2000
1000	2,98	0,59	3,57	2591
1500	10,06	0,89	10,95	2855
2000	23,83	1,19	25,02	2960
2500	46,55	1,49	48,04	3012
35-MonoPan® 1.4/2				
230	0,03	0,12	0,14	495
300	0,06	0,15	0,21	746
600	0,47	0,31	0,77	1631
1000	2,16	0,51	2,67	2184
1500	7,29	0,76	8,06	2443
2000	17,29	1,02	18,30	2548
2500	33,76	1,27	35,03	2601

The given values are calculated values and no experimental data. The data have been created with great care. However, they can only be used as an indication. The values are valid for MonoPan® with 80 kg/m³ honeycomb core.

For applications, treatment and storage please pay attention to the „Technical Data Sheet“ of the manufacturer.

The specifications in this data sheet represent the current state of our technical knowledge and its purpose is to inform about MonoPan® and its applications. The specifications therefore do not guarantee particular properties or suitability for a specific application. We reserve the right to make changes in accordance with technological processes and other developments. We guarantee faultless quality in accordance with our conditions of sale.



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