

## Technical Characteristics alkus solid plastic panel

Main Parameters		Glass Fibre Reinforcement					Aluminum Reinforcement									Norm
Type of Panel		GM 6	GM 10	GM 11,5	GM 12,5	GM 15	AL 10	AL 12,9	AL 15	AL 17	AL 18	AL 19	AL 20	AL 22	AL 27	
Reference Thickness (mm)		5,7	10,0	11,5	12,5	15,0	10,0	12,9	15,0	17,0	18,0	19,0	20,0	22,0	27,0	
Tolerance in thickness (mm)		+0 / -0,6					+0 / -0,6									
Weight (kg/m <sup>2</sup> )		5,6	9	9,5	10,6	12,8	8	10,5	11,5	12,5	13	14	14,5	15,5	19,6	ISO 845
Maximum production width (mm)* <sup>1</sup>		1200					1370									
Maximum production length (mm)* <sup>1</sup>		4000					4000									
Module of Elasticity (3-Points) 21° C (N/mm <sup>2</sup> )	longitudinal	4430	3650	3000	2900	2500	6650	5650	5400	5850	5500	5300	5100	4600	3900	ISO 178
	diagonal	2800	2200	2100	2000	1700										
Tensile Strength 21° C (N/mm <sup>2</sup> )	longitudinal	110	80	71	69	60	45	36	37	44	43	42,5	42	40	33	ISO 178
	diagonal	68	54	43	41	30										
Shear Resistance (N/mm <sup>2</sup> )		> 6					> 6									EN 789

Thermal Properties				
Thermal Conductivity (W/(mK))	0,12		0,13	EN 12667
Thermal Expansion Coefficient (23° C - 50° C), (10EXP-6 m/(mK))	70		42	
Temperature Range	-20°C – +90°C		-20°C – +90°C	ISO 75

Other Properties				
Water Absorption	0%		0%	ISO 62
Nail Holding Ability	comparable with plywood sheets coated with phenolic resin			
Scratch Resistance (N)	0,7		0,5	DIN 53799
Abrasion Resistance (AT 1/Rot.)	> 28.000		> 11.000	DIN 53799
Surface Hardness (Shore D)	75		68	ISO 868
Inflammability	B2		B2	DIN 4102
Processing	on site: like plywood Industrial production: with optimized cutting and drilling geometries			

The data presented in this section are to be seen as a guide and may vary depending on the process method and test specimen used. The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purpose. They do not constitute a guarantee of specific properties or qualities.

\*<sup>1</sup>) Special dimensions on request. Panels wider than 1370 mm / 53 <sup>15/16</sup> inch (AL) and 1200 mm / 47 <sup>1/4</sup> inch (GM) are welded together of two or more panels.