

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 20	AL 21	AL 23	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	20.0	21.0	23.0	27.0	
Tolerance in thickness (mm)		+0 / -0,6					+0 / -0,6									
Weight (kg/m ²)		5.6	9	9.5	10.6	12.8	8	10.5	11.5	12.5	13	14.5	15	16.2	19.6	ISO 845
Maximum production width (mm)* ¹		1200					1370									
Maximum production length (mm)* ¹		4000					4000									
Module of Elasticity (3-Points) 21° C (N/mm ²)	longitudinal	4430	3650	3000	2900	2500	6650	5650	5400	5850	5500	5100	4900	4300	3900	ISO 178
	diagonal	2800	2200	2100	2000	1700										
Tensile Strength 21° C (N/mm ²)	longitudinal	110	80	71	69	60	45	36	37	44	43	42	41	39	33	ISO 178
	diagonal	68	54	43	41	30										
Shear Resistance (N/mm ²)		> 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.

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