

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	AL11	AL 12,9	AL 15	AL 17	AL 18	AL19	AL 20	AL 22	AL 27	
Reference Thickness (mm)		5.7	10.0	11.5	12.5	15.0	10.0	11.0	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 ²)		5.6	9	9.5	10.6	12.8	8	8.4	10.5	11.5	12.5	13	14	14.5	15.5	19.6	ISO 845
Maximum production width (mm)* ¹		1200					1370										
Maximum production length (mm)* ¹		4000					4000										
Module of Elasticity (3-Points) * ³ 21° C (N/mm ²)	longitudinal	4430	3650	3000	2900	2500	6650	6100	5650	5400	5850	5500	5300	5100	4600	3900	ISO 178
	transversal	2800	2200	2100	2000	1700											
Flexural Strength 21° C (N/mm ²)	longitudinal	110	80	71	69	60	45	42	36	37	44	43	42.5	42	40	33	ISO 178
	transversal	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										DIN 53752
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					> 8.800 * ²										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.