

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 13	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	13.0	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/m2)		5.6	9	9.5	10.6	12.8	10.5	11.5	12.5	13	14.5	15	16.2	19.6		
Dimensions (mm)		1200 / endless					1370 / endless									
Module of Elasticity (3-Points)	longitudinal	4430	3650	3000	2900	2500	6500	6350	5850	5500	5100	4900	4300	3900	ISO 178	
	E 21° C (N/mm2)	diagonal	2800	2200	2100	2000										1700
Tensile Strength	longitudinal	110	80	71	69	60	53	48	44	43	42	41	39	33	ISO 178	
	21° C (N/mm2)	diagonal	68	54	43	41										30
Shear Resistance (N/mm2)		> 6					> 6								EN 789	

Thermal Properties			
Thermal Conductivity (W/(mK))	0.12		0.13
Thermal Expansion Coefficient (23° C - 50° C), (10EXP-6 m/(mK))	70		42
Temperature Range	-20°C – +90°C		-20°C – +90°C

Other Properties			
Water Absorption	0%		0%
Nail Holding Ability	comparable with plywood sheets coated with phenolic resin		
Scratch Resistance (N)	0.7		0.5
Abrasion Resistance (AT 1/Rot.)	> 28.000		> 11.000
Surface Hardness (Shore D)	75		68
Inflammability	B2		B2
Processing	on site: like plywood Industrial production: with optimized cutting and drilling geometries		