

TECHNICAL CHARACTERISTICS - GM PANEL

Main Parameters	Glass Fibre Reinforcement					Norm
Type of Panel	GM6	GM10	GM11.5	GM12.5	GM15	
Reference Thickness (mm)	5.7	10.0	11.5	12.5	15.0	
Tolerance in thickness (mm)	+ 0 / - 0.6 mm					
Weight (kg/m ²)	5.6	9	9.5	10.6	12.8	DIN EN ISO 845
Maximum production width (mm) ¹⁾	1200					
Maximum production length (mm) ¹⁾	4000					
Module of Elasticity (3-Points) 21 ° (N/mm ²) ²⁾ longitudinal	4430	3650	3000	2900	2500	DIN EN ISO 178
Module of Elasticity (3-Points) 21 ° (N/mm ²) ²⁾ transversal	2800	2200	2100	2000	1700	DIN EN ISO 178
Flexural Strength 21 ° (N/mm ²) longitudinal	110	80	71	69	60	DIN EN ISO 178
Flexural Strength 21 ° (N/mm ²) transversal	68	54	43	41	30	DIN EN ISO 178
Shear Resistance (N/mm ²)	>6					DIN EN 789

Thermal Properties		
Thermal Conductivity (W/(mK))	0.12	DIN EN 12667
Thermal Expansion Coefficient (23 ° – 50 ° C), (10EXP-6 m/(mK))	70	DIN 53752
Temperature Range	-20 ° C – +90 ° C	DIN EN ISO 75

Other Properties		
Water Absorption	0 %	DIN EN ISO 62
Nail Holding Ability	comparable with plywood sheets coated with phenolic resin	
Scratch Resistance (N)	0.7	DIN 53799
Abrasion Resistance (AT 1 / Rot.)	<28.000	DIN 53799
Surface Hardness (Shore D)	75	DIN EN ISO 868
Inflammability	B2	DIN 4102
Processing	on site: like plywood Industrial production: with optimized cutting and drilling geometries	

¹⁾ Special dimensions on request. Panels wider than 1200 mm / 47 ^{1/4} inch (GM) are welded together of two or more panels.

²⁾ Support spacing 350 mm

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.