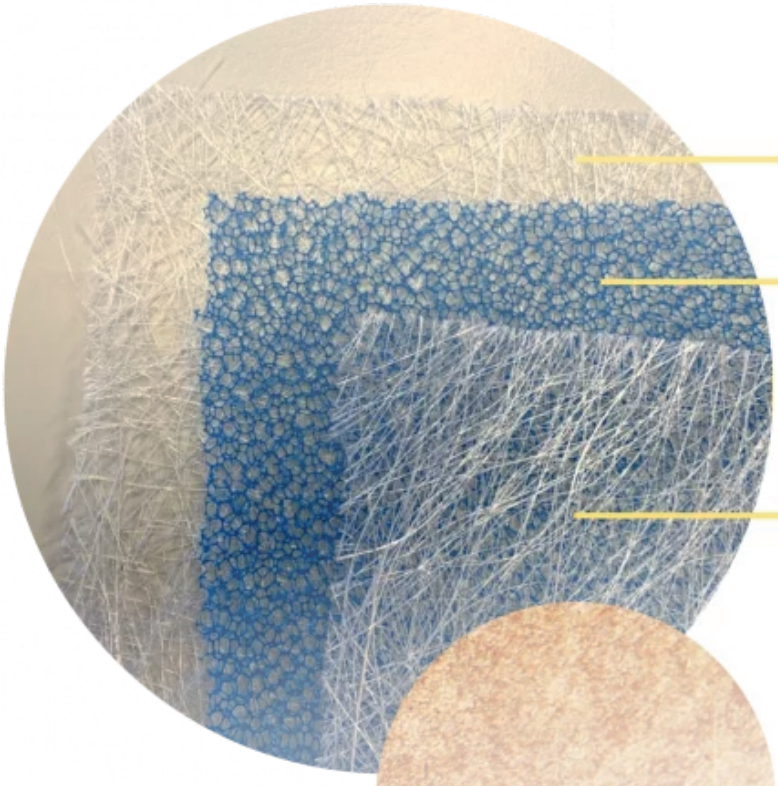
MayBOARD

We reinvent the wood



MayTec®

www.maytec.de

MayBoard

Rethinking Lightweight Panels.

MayBoard is an innovative, lightweight panel and a true alternative to wood, composites, and other conventional sheet materials. It‘s extreme lightweight, high durability, and fire-resistance make MayBoard ideal for industrial, craft, and structural applications.

Why Choose MayBoard?

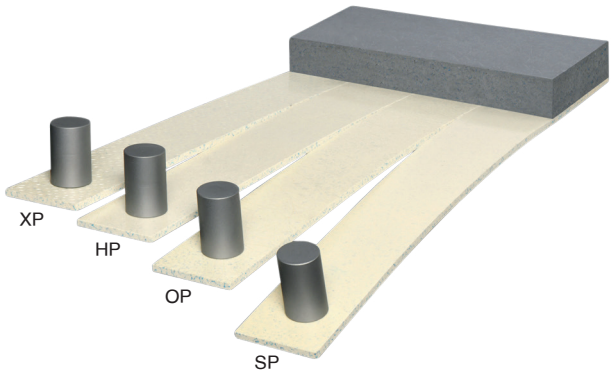
- **Engineered to be both lightweight and extremely durable**
- **Fire-resistant (Class B)**
- **Easy to cut, shape, and assemble without special tools**
- **Ideal for industrial, construction, and craft applications**
- **Available in standard and custom finishes**
- **lightweight, durable, and versatile:**
  the modern alternative to traditional sheet materials

The smart way to connect

Overview Versions

SP (STANDARD PERFORMANCE)

Panel Thickness	12 mm	14 mm
Reinforcement (glass)	2 x 225 g/m²	
Areal-Weight (total)	3,1 kg/m²	3,5 kg/m²
Bending (ASTM D-790):		
E-Modulus	820 MPa	780 MPa*
Flexural Strength	12,1 MPa	10 MPa*
Thermal Conductivity	0,055 W/mK	0,055 W/mK



OP (OPTIMIZED PERFORMANCE)

Panel Thickness	6 mm	8 mm	12 mm	14 mm	16,5 mm	19 mm	24 mm
Reinforcement (glass)	2 × 225 g/m²						
Areal-Weight (total)	2,1 kg/m²	2,7 kg/m²	3,7 kg/m²	4,9 kg/m²	4,8 kg/m²	5,4 kg/m²	6,7 kg/m²
Bending (ASTM D-790):							
E-Modulus	1.650 MPa*	1.420 MPa*	930 MPa	840 MPa*	740 MPa*	680 MPa	560 MPa
Flexural Strength	22,1 MPa*	19,2 MPa*	14,5 MPa	14,1 MPa*	12,2 MPa	12 MPa	9,8 MPa
Thermal Conductivity	0,055 W/mK	0,055 W/mK	0,055 W/mK	0,055 W/mK	0,055 W/mK	0,055 W/mK	0,055 W/mK

HP (HIGH PERFORMANCE)

Panel Thickness	6 mm	8 mm	12 mm	14 mm	16,5 mm	19 mm	24 mm
Reinforcement (glass)	2 × 300 g/m²						
Areal-Weight (total)	2,4 kg/m²	3,2 kg/m²	4,5 kg/m²	4,9 kg/m²	5,8 kg/m²	6,5 kg/m²	8,1 kg/m²
Bending (ASTM D-790):							
E-Modulus	1.730 MPa*	1.490 MPa*	1.240 MPa*	1.160 MPa*	1.050 MPa*	950 MPa	790 MPa
Flexural Strength	28,4 MPa*	24,8 MPa*	21,2 MPa*	19 MPa*	17 MPa	16,5 MPa	14,7 MPa
Thermal Conductivity	0,06 W/mK	0,06 W/mK	0,06 W/mK	0,06 W/mK	0,06 W/mK	0,06 W/mK	0,06 W/mK

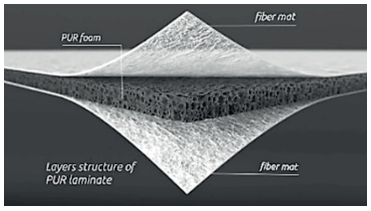
XP (EXTRA HIGH PERFORMANCE)

Panel Thickness	16,5 mm	19 mm	24 mm
Reinforcement (glass)	2 × 600 g/m²		
Areal-Weight (total)	6,4 kg/m²	7,1 kg/m²	8,7 kg/m²
Bending (ASTM D-790):			
E-Modulus	1.270 MPa	1.220 MPa*	in Prüfung
Flexural Strength	22,2 MPa	21 MPa	in Prüfung
Thermal Conductivity	0,06 W/mK	0,06 W/mK	0,06 W/mK

** Values based on MayBoard designs with PolyBak coating on both sides (paper coating).*

Technical specifications

Material / Composition	Sandwich composite structure based on low-density rigid polyurethane foam (PUR), glass fiber, and a polypropylene spacer mat. A sandwich made of two layers of glass or natural fiber mats and a polypropylene spacer layer sprayed with rigid polyurethane foam. The foam penetrates the sandwich, fully cures, and thereby stabilizes the panel.
Panel Size	1220 x 2440 mm / 48,03 x 96,06 inch
Surfaces	Raw – ready for various coatings / further processing
Density	200 – 400 kg/m³
Solubility in water	Insoluble
Water absorption	< 2 %
Odor	Odorless or faint odor
Flash ignition point	Between 599 °F to 698 °F
Fire protection class	B
Decomposition temperature	> 356 °F
Thermal energy	28.000 kJ/kg
Stability and reactivity	Stable at temperatures between – 40 °F and + 248 °F
Fire hazard	Auto-ignition point (ASTM D 1929): between 698 °F and 800 °F. The product is combustible and produces high heat and dense smoke when burning. Depending on combustion conditions, decomposition products such as soot, carbon monoxide, carbon dioxide, gaseous hydrocarbons, and nitrogen compounds may form in varying concentrations. Suitable extinguishing agents: Water, CO^2, dry powder, foam
Safety instructions	No special protective equipment required, except for dust-generating work. General ventilation sufficient; local exhaust for dust or vapors. Respiratory protection: N95 mask when dusty. Eye protection: Safety goggles during grinding. Clothing: Dust-protective clothing recommended.
Environment & Disposal	Production residues: recyclable if clean. Old material: recyclable via pyrolysis; otherwise landfill or controlled incineration. Regulations: No special requirements for PUR waste under EU/US regulations.
Storage / Packaging / Transport	Store dry, at 59 – 77 °F and 40 – 60 % humidity. Keep away from heat sources. Store panels flat on a stable, padded surface. Do not drag or push over edges. No hazardous goods classification; no special transport procedures required.



Disclaimer: Subject to change and error. Please ensure you always use the latest version.
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