

Australian Panels Pty. Ltd.
ABN 31 003 246 357

Technical Data Sheet

September, 2024

polytec

Technical Data Sheet

LMG

Machine Grade Low Pressure Melamine MDF

www.polytec.com.au

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GENERAL INFORMATION

polytec's LMG Machine Grade Low Pressure Melamine board is made from moisture-resistant (MR) Medium Density Fibreboard (MDF) E-Zero in thicknesses 18-21mm, and is specifically designed for better machinability in cut and route application.

polytec's LMG Machine Grade Melamine Board is for internal use, such as kitchens, bathrooms, laundries, wardrobes, domestic and commercial furniture. MR Melamine is resilient to areas exposed to low to medium humidity levels and where accidental wetting may occur.

APPLICATION

All materials must be inspected for any clearly detectable defects prior to commencing any value additions, such as machining, edging etc. Wear and tear is not covered by warranty as well as any claims arising from any clearly detectable defects prior to value addition.

PHYSICAL PROPERTIES

SUBSTRATE

TYPICAL PROPERTIES AS TESTED TO AS/NZ 1859.2

Density	770 kg/m ³
Modulus of Rupture (MOR)	40 MPa
Modulus of Elasticity (MOE)	3500 MPa
Internal Bond Strength	900 kPa
Moisture Content (ex-factory)	7 %
Thickness Swell (24 Hours)	6 %
Wet Bonding Strength (WBS-A)	7 MPa

SCREW HOLDING

Edge	1000 N
Face	800 N

DECORATIVE SURFACE

TYPICAL PROPERTIES AS TESTED TO AS/NZ 4266.1

Resistance to Surface Abrasion	
Solid Colours	≥ 300 cycles
Print Patterns	≥ 40 cycles
Porosity	≤ 3
Stain Resistance	≤ 2
Steam Resistance	≤ 3
Cracking Resistance	No visible micro cracks

COMPOSITION AND INFORMATION OF INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Plantation soft wood	None	> 70 %
Melamine urea formaldehyde (MUF) resin	25036-13-9	< 20 %
Decorative paper	None	< 2 %
Paraffin wax	8002-74-2	< 1 %

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DIMENSIONAL TOLERANCES

AT TIME OF DELIVERY AS TESTED TO AS/NZS 4266.1

Thickness	± 0.6mm
Length & Width	± 5.0mm
Squareness	± 2mm/m
Flatness	± 2mm/m *

* As a guide only when measured on the horizontal as there are numerous factors such as temperature and relative humidity in storage and fabrication areas may affect the stability.

WEIGHT AND DENSITY

THICKNESS		TYPICAL PRODUCT WEIGHT			
mm	kg /m ²	2400 x1200	2700 x1200	3115 x1200	3600 x1200
18	13.86	39.92	44.91	51.81	59.88
21	16.17	46.57	-	60.44	69.85

FIRE TESTS

Classified as Group 3 in accordance with specification C110 section 4 of BCA.

STORAGE AND MAINTENANCE

polytec's doors, panels and Melamine board should be treated with special care, avoid leaning large doors, panels and sheets against walls or other surfaces, this will cause bowing of the product and may void any warranty obligations held by polytec. polytec Melamine products should always be protected against direct sunlight as continuous exposure may cause discolouration or fading over time.

When stacking be sure to place on a flat surface, face to face, this will keep the product in its optimal condition, also be sure not to drag the products across each other as this will cause scratches and damage the surface.

ENVIRONMENTAL

At polytec, sustainability is ingrained in the core of our business operations, products, and work practices. Our continual dedication to improving and appropriately managing the environmental impact of our products involves our commitment to steadfastly reducing our carbon footprint, minimising waste, optimising energy efficiency and integrating ethically sourced materials into our product ranges.

Our MDF and Particleboard are manufactured from managed and renewable plantation pine that has been Green Tag, Responsible Wood and PEFC certified. All polytec Melamine products are manufactured from E0 or E1 substrates, with particleboard now made from a percentage of recycled wood material.

In our pursuit of responsible waste management, we implement various recycling programs encompassing aluminium, metals, used oils, and timber waste, which is repurposed into packaging, particleboard, and energy. We actively engage with local government environmental initiatives, subject ourselves to voluntary audits, and uphold our internal Energy and Carbon Management Policy (ECM), aligned with the Australian Government's Energy Efficiency Opportunities (EEO) program.

CONTACT

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