



polytec

Technical Data Sheet

LPM

Low Pressure Melamine - MR Particleboard

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GENERAL INFORMATION

polytec's Melamine range is available in a stunning selection of colours, designs and various surface finishes allowing you to create a stylish look in your home, workplace or decorative joinery application.

Made from 16mm to 33mm moisture-resistant (MR) E1 Particleboard (PB) bonded with resin, impregnated paper on both sides, the hardened resin creates an outer layer providing an excellent surface for all applications.

APPLICATION

polytec's Melamine range is designed for interior 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.

The hardened resins in the decorative Melamine outer layer resists chipping, scuffing and dents and the Melamine surface wipes clean with warm soapy water and a non-abrasive cloth. This product has been designed with the consumer in mind and is a perfect solution for all joinery applications.

PHYSICAL PROPERTIES

TYPICAL PROPERTIES AS TESTED TO AS/NZ 1859.2

Density	650 kg/m ³
Modulus of Rupture (MOR)	18 MPa
Modulus of Elasticity (MOE)	2700 MPa
Internal Bond Strength	750 kPa
Moisture Content (ex-factory)	8 %
Thickness Swell (24 Hours)	6 %
Wet Bonding Strength (WBS-A)	5.5 MPa

SCREW HOLDING

Edge	900 N
Face	700 N

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 %

WEIGHT AND DENSITY

THICKNESS		TYPICAL PRODUCT WEIGHT			
mm	kg	2400	3600	3600	
	/m ²	x1200	x1200	x1800	x1800
16	10.40	29.95	44.93	67.39	
18	11.70	33.70	50.54	75.82	
25	16.25	—	—	105.30	

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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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