

polytec MELAMINE Particleboard

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.

Product Properties

PROPERTY	UNIT	MR PB E1 MELAMINE
Density	Kg/m ³	650
Modulus of Rupture (MOR)	MPa	18
Modulus of Elasticity (MOE)	MPa	2800
Internal Bond Strength	kPa	750
Moisture Content (ex-factory)	%	8
Thickness Swell (24 hours)	%	6
Wet Bonding Strength (WBS-A)	MPa	5.5
SCREW HOLDING		
Edge	N	900
Face	N	700

(Typical properties when tested to AS/NZS 1859.1)

Chemical Composition

CHEMICAL ENTITY	CAS No	PROPORTION
Plantation Soft Wood	None	>80%
Melamine Urea Formaldehyde (MUF) Resin	25036-13-9	<20%
Decorative Paper	None	<2%
Paraffin Wax	8002-74-2	<1%

Fire Tests

EARLY FIRE HAZARD INDICES TO AS 1530.3	CAS No
Ignitability Index:	12-14
Spread of flame index:	5 - 7
Heat evolved index	4 - 6
Smoke developed index:	3 - 5

Classified as Group 3 in accordance with specification C1.10 section 4 of BCA.

Weights

THICKNESS (mm)	DENSITY (kg/m ³)	TYPICAL PRODUCT WEIGHT			
		(kg/m ²)	2400 x 1200	3600 x 1200	3600 x 1800
16	650	10.40	29.95	44.93	67.39
18	650	11.70	33.70	50.54	75.82
25	650	16.25	-	-	105.30

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.

Certification

polytec is committed to an eco-friendly and sustainable environment. It is an intrinsic part of the way we do business daily. Our decisions are made so that they have minimum negative impact on the environment. Our product is manufactured from managed and renewable plantation pine and is Australian Forestry Standard chain of custody certified. All polytec **Melamine** products are manufactured from CUSTOMpine MR Particleboard E1. We subscribe to local government environmental initiatives and voluntary audits as well as our own internal Energy and Carbon Management Policy (ECM), which aligns with the Australian Government's Energy Efficiency Opportunities (EEO) program.

Contact

For further information on this product contact:

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