

polytec



Technical Data Sheet

LPM

Low Pressure Melamine - LDF

LPM Low Pressure Melamine - LDF / Technical Data Sheet

GENERAL INFORMATION

polytec's Melamine range is available in a stunning selection of colours and designs, allowing you to create a stylish look in your home or workplace. Made from Low Density Fibreboard (LDF) E-Zero meeting wet properties of moisture resistance (MR) MDF, in a range of surface finish options. The available range of colours in our Melamine products are available in Square Edged profile doors & panels and a selected range in Bevel Edge profile and Aluminium Finger Pull doors & panels. **polytec** Melamine doors & panels are designed to complement **polytec**'s other extensive decorative surface ranges including Thermolaminated doors & panels and Benchtops & laminate.

polytec's Melamine finishes are designed for interior use, such as kitchens, bathrooms, laundries, wardrobes, domestic and commercial furniture. LDF Melamines are resilient to areas exposed to low to medium humidity levels and where accidental wetting may occur.

APPLICATION

When installing Smooth Low Pressure Melamine panels in a horizontal application, please ensure surface is tested in the final/similar environment to determine usability.

Wear and tear is not covered by warranty.

PHYSICAL PROPERTIES

SUBSTRATE

TYPICAL PROPERTIES AS TESTED TO AS/NZ 1859.2

Density	580 kg/m ³
Modulus of Rupture (MOR)	23 MPa
Modulus of Elasticity (MOE)	2000 MPa
Internal Bond Strength	400 kPa
Moisture Content (ex-factory)	7 %
Thickness Swell (24 Hours)	7 %
Wet Bonding Strength (WBS-A)	4 MPa

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 %

LPM Low Pressure Melamine - LDF / Technical Data Sheet

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	3600 x1800
25	14.5	94.0
33	19.1	124.0
35	20.3	MTO
39	22.6	MTO

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 LDF boards 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 EO substrates.

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

For further information contact:

Porta Products Pty. Ltd. (ABN 31 003 246 357)

Address 2 Wella Way,
Somersby NSW 2250,
Australia

Telephone 1300 300 547

Fax 1300 320 547

Whilst the information contained in this document is based on data, which, to the best of our knowledge, was accurate and reliable at the time of preparation, we can accept no responsibility for errors and omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, we can accept no responsibility for any loss or damage caused by any person acting or refraining from action as a result of this information.