



MURRAY

PLASTICS



Custom Cut Plastic Solutions

Engineered to fit. Built to last.





Murray Plastics specialises in the manufacture of high quality HDPE plastic sheets and precision CNC machined components for commercial, industrial and manufacturing applications.

Murray Plastics delivers durable alternatives to timber, plywood and MDF.

From concept to completion, we partner with manufacturers, builders and designers to create high-performance plastic solutions for demanding environments.

WHY MURRAY?

AUSTRALIAN OWNED & MANUFACTURED

All of our plastic sheeting and products are made at our facility in Albury. This means we manufacture to strict Australian standards and support our local economy and communities.

LOCAL EXPERTS

We have over 25 years of expertise in plastic product design and manufacture. Our experienced local plastic experts are highly knowledgeable and understand different industry requirements.

SUPERIOR PERFORMANCE

Our solid HDPE panels are tough, durable and resistant to rot, cracking, swelling, delamination, mildew and termites. They withstand fresh and saltwater, as well as most corrosive chemicals, and are UV-stabilised for long outdoor life.

Unlike foamed plastics, our solid sheets are ideal for machining and heat welding. Their consistent thickness ensures clean cutting, routing and drilling, with edges that match the sheet surface.

CNC MACHINING & CUSTOM FABRICATION

Murray Plastics provides precision CNC machining to create fully customised plastic components. We produce custom-cut parts, routed panels, machined components, and engraved or branded pieces, including complex shapes and profiles.

From one-off prototypes to large-scale production runs, we manufacture to your exact specifications.

Simply provide your drawings, CAD files or concept, and we'll bring them to life.

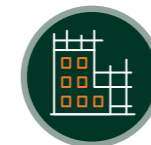


APPLICATIONS



Furniture & Interior Design

Used for tables, benches, desks, stools, and cabinetry, offering unique, aesthetic finishes such as terrazzo styles.



Signage & Advertising

Excellent for outdoor signage, logos & branding panels, and wayfinding systems due to resistance against weather, rot, and UV fading.



Retail & Commercial Fit-outs

Ideal for high-traffic retail and commercial applications such as counters, wall cladding, decorative panels, and display units.



Landscaping & Agriculture

Used in garden beds & edging, nursery benches, planter boxes, grass and root barriers, food and water troughs, irrigation channel gates, produce bins, animal runs and pens, horse float liners and durable outdoor furniture.



Building & Construction

Used for concrete formwork, eaves/soffit linings, cladding, shopfitting, fencing, wet area fit out and partitions, providing a durable, waterproof alternative to plywood or MDF.



Marine & Industrial

Applied in end caps and other parts for pontoons, marinas and jetties, boat bulkheads, trims, seat backs and bases, fish cleaning boards, bait boxes and pump boxes.






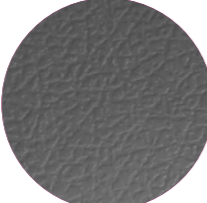
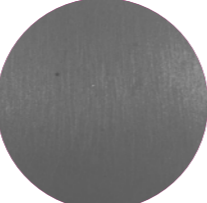
CUSTOM COLOURS AVAILABLE*
 *Subject to minimum order quantities.

COLOUR RANGE

Our 100% solid high-density polyethylene (HDPE) sheets come in 21 standard colours.

 BLACK PMS Black C	 SLATE GREY PMS 417C	 MID GREY PMS Cool Grey 9C	 LIGHT GREY PMS Cool Grey 5C	 SMOOTH CREAM PMS 468C	 OFF WHITE PMS 7534C	 WHITE
 RED PMS 2035C	 ORANGE PMS 158C	 GOLDEN YELLOW PMS 7408C	 YELLOW PMS 7405C	 MAGENTA PMS 226C	 PURPLE PMS 7680C	 BLUE PMS 2145C
 LIGHT BLUE PMS 2925C	 LIME GREEN PMS 360C	 LIGHT GREEN PMS 347C	 MIST GREEN PMS 5635C	 GRASSHOPPER PMS 7496C	 CAULFIELD GREEN PMS 350C	 BROWN PMS 7519C

PRODUCT DETAILS

Sheet Size	Nominal sheet size 2440x1220mm; Finished sheet size 2400x1200mm
Sheet Thickness	12, 15, 19, 25, 30 & 40mm standard sizes.
Sheet Textures	Available in two finishes  Textured  Smooth

TECHNICAL SPECIFICATIONS

View our technical data sheet to learn more about our quality plastics and to ensure they meet your requirements and industry standards.

Mechanical Properties(1)	Value(2)	Unit	Method
Tensile strength at yield	25.0	MPa	ISO 527
Elongation at yield (Break)	>300	%	ISO 527
Flexural Modulus (Tension)	0.70	GPa	ISO 178
Flexural Strength	18.0	MPa	ISO 178
Notched Izod Impact	750	J/m	ASTM D256A
Coefficient of Friction	0.20 – 0.25	-	-
MFI (190°C/2.16kg)	.70	g/10 min	ISO 1133

Thermal & Fire Properties (1)	Value(2)	Unit	Method
Glass Transition Temp (Brittleness)	-95	°C	-
Melting Point	132	°C	-
Service Temperature (Short Term)	100	°C	-
Service Temperature (Long Term)	80	°C	-
Coeff. of Thermal Expansion	12	10-5C	-
Thermal Conductivity	0.47 – 0.49	W/m²K	-
Specific Gravity	0.97	g/cm	ISO 1183

Electrical Properties (1)	Value(2)	Unit	Method
Surface Resistivity	10 ¹⁵	Ohm	-
Dielectric Strength	45	kV/mm	-
Arc Resistance	136 - 185	S	-

(1) Typical properties; not to be construed as specifications.
 (2) Values quoted are the result of tests on representative samples and the product supplied may not conform in all respects.





"Good quality material, prompt service, and they never walk away from a problem. We feature Murray Plastic's 25mm Coloured Panels across a range of our products. Panels are cut to shape then shipped down to us for our entire Satellite product range, ready to assemble. Notably, we find our popular Satellite Round 8 Seat Table Setting with Recycled Plastic Seat and Tabletops is specified for schools more often than other table and seat top material options."

Luke Gurney

Product Manager
 Draffin Street Furniture -
 Baywater Victoria.



FAQ

What are your plastic sheets made from?

Our sheets are made from a high-density polyethylene (HDPE).

What are your tolerances?

- Standard sheet size tolerance is 2400+40/-0mm x 1200+20/-0mm, sheet squareness tolerance is within 5mm.
- Sheet thickness tolerance is +/-5% or +/-1mm, whichever is greater.

Please note: Sheet thickness can vary within the tolerance from corner to corner on one sheet.

What size plastic sheets do you sell?

Our HDPE sheets are made to a standard size of 2400 x 1200 mm in size and are available in thickness range from 12, 15, 19, 25, 30 & 40mm.

What colours and finishes are available?

We manufacture our panels in a range of colours, with either a smooth or textured surface finish.

Are the sheets waterproof?

All sheets are waterproof and can be used in underwater applications.

Where do you deliver?

We deliver Australia-wide (ex-works). This means we arrange transportation, but you are responsible for the cost and products once they leave our facility.

What weight is your plastic sheets?

The weight of sheets varies based on their thickness. Generally, for every millimetre of thickness, the weight increases by approximately 3 kilograms. For example, a 12mm sheet would weigh approximate 36 kilograms.

Do you make sheets from other plastics?

We make sheets using HDPE only, we do not make sheets from other types of plastic (PVC, LLDPE, Polypropylene, etc.)

Can your plastic sheets be used outdoors?

Yes, our sheets are UV-stabilised and can be used in outdoor applications. As they are HDPE plastic, there will be a small degree of expansion with heat exposure.

Thermal expansion & contraction guidelines

See how our plastics behave under thermal stress to ensure the performance and integrity of your sheeting. Coefficient of linear thermal expansion of HDPE:

- 0.12mm / m / degree C
- A 2.4m long HDPE panel will change in length by about 12mm over a 40-degree temperature change, and its 1.2m width will change by 6mm. The fixing holes in the sheet have to be oversized or elongated to allow the sheet to expand and contract freely with changes in temperature.
 - **Don't** over-tighten the fasteners, as this will restrict movement and will cause the sheet to buckle.
 - **Don't** position fasteners closer than 15mm from the edge of the sheet, and ensure that there is a sufficient gap all around the fastener in the hole.
- If the sheet cracks or breaks around the fastener hole in cold conditions, it usually means the hole was drilled too small or there wasn't enough clearance around the fastener.
- If using one 2.4 x 1.2m sheet, leave a 6mm expansion gap between the edge of the sheet and any fixed object. If multiple sheets are installed side by side, leave a 12mm expansion gap between sheets.
- If the sheet buckles in the heat, loosen or reposition the fasteners or enlarge the holes in the sheet.



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**Talk to our team about your next
project and discover custom-recycled
solutions for your business.**



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