



THERMOPLASTIC SOLUTIONS FOR THE MARINE INDUSTRY

Maizey Engineering Plastics provide semi-finished plastic stocks shapes, custom machined parts and components to service yachts, boats, ships, vessels, transportation and harbour infrastructure.



Thermoplastic materials are resistant to saltwater, UV radiation, weathering, chemicals and corrosion.

Thermoplastics will not rot, swell, corrode or delaminate and don't require lubrication, making them perfect for the challenging conditions in marine environments.

ADVANTAGES OF THERMOPLASTICS

- Exceptional flatness and dimensional stability.
- Thermoplastics retains its shape in fabrication, resulting in excellent finished part quality.
- Long term UV stability and durability with excellent weatherability.
- Resistant to salt water penetration.
- Good chemical resistance.
- Good impact resistance.
- Low coefficient of thermal expansion.
- Easy to clean and maintain.
- Stain resistant.
- No lubrication required.
- Colour fastness throughout the material - no painting required.
- Solid polymer composition - will not rot, delaminate, splinter or fade.

APPLICATIONS

- Windscreens, Hatches and Portholes
- Cockpit Covers
- Instrument Panels
- Fishing Rod Holders or Racks
- Navigation Buoys
- Switchboard Panels
- Relay Cases
- Rudder / Stern Tube / Slew Bearings
- Stern Tube Bushes
- Davids Oscillating Bushes
- Stern Rollers
- Sheave Wheels
- Rollers for Boat Trailers
- Stabilisers
- Winches
- Bow Trusters
- Seating, Cabinetry and Furniture
- Decking, Gangways and Steps
- Swimming Platforms
- Dock Fenders and Boat Bumpers

Our engineers can advise on the correct material to improve performance and maximise wear life, as well as the correct design such as fits and cleances.



Solutions for boats, ships, leisure craft, yachts and marine transportation.



ENGINEERING PLASTIC PRODUCTS

- MARINE-TEC® HDPE Sheet
- MARINE-TEC® LITE HDPE Sheet
- TROVIDUR® PVC Sheet
- SUSTADUR® Polyester Sheet
- SUSTAMID® Nylon Sheet / Rod / Tube

COMMERCIAL GRADE PLASTICS

- PLEXIGLAS GS/XT - Cast and Extruded Acrylic Sheets
- ABS Sheet
- KAPA-TECH® - Light-weight Foam Board with Aluminium Skins.
- IMPEX® HC UV - Polycarbonate Sheet
- FOAMALITE® - PVC Foam Board
- M-FOAM® - PVC Foam Board
- I-BOND® - Aluminium Composite Panel

BRANDING AND BOAT WRAPPING

- Selfadhesive Vinyls – GRAFICAST® coloured films and GRAFIWRAP® Digital Printable films and laminates.

Marine ply and laminates were traditionally used for storage cabinets, instrument panels, bench tops and cladding. These products were heavy and continually absorbed water, causing swelling, delamination and eventually breakage.

Using thermoplastics reduces the weight, eliminates delamination and provides water resistance. Plastics are also scratch resistant, colour fast and easy to clean.

Glass windscreens and instrument panels can be replaced with PLEXIGLAS acrylic sheeting. Available in different colours.



Engineered thermoplastic bearings can operate without lubrication and is therefore maintenance free, while bronze, rubber and rolling element bearings require regular maintenance.

Plastics also don't suffer from corrosion.



Stock Shapes and Finished Components
NATIONAL DISTRIBUTION - 086 110 0420

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Maizey Engineering operates a 2500m² facility equipped with state-of-the-art machining technology that maximises efficiency while insuring the highest levels of quality during the production of machined parts and components.

Our technical team is highly skilled in working with a broad range of high performance plastics and aluminium. Services include: CNC turning, routing and milling, spindle machining, planing, cutting, plastic welding, bonding and bending.

Both our CNC router and CNC Work Center has 3D capabilities, whilst our programming department can provide support with conceptualisation and design using the latest CAD/CAM software.

Thermoplastic machining offers an alternative to traditional stainless steel and aluminium parts and are used as replacements for OEM parts or as newly developed components.

