



Thermoplastics have conquered the world of demanding applications, proving that polymers can outperform and outlast metals, timbers, rubbers and ceramics, and in many cases be more cost effective.

THE ADVANTAGES OF THERMOPLASTICS

- Plastics are light weight, especially when compared to metals.
- Durable and corrosion resistant – The ideal choice in environments where corrosive agents are present. This is also a benefit for applications at the coast where corrosion from moisture and salt is a problem.
- Low Friction and Low Wear – increases part life and results in less down time.
- Excellent thermal and insulation properties making it ideal for use in the electrical industry.
- Cost effective – overall very economical to produce.
- Can be modified to suit different applications with the use of reinforcements to improve strength (Carbon, Glass, Aramids), additives to enhance specific properties (UV Stabilisers, Fire Retardants, Impact Modifiers) and colorants (Dyes & Pigments) to change appearance.
- Long life cycle – In general EPP and high performance grades exhibit a long service life in application, provided the material is used within its specifications.
- Some grades have self-lubricating properties. This saves costs eliminating the use of lubrication fluids. External lubrication also causes problems with dust and grease build-up.
- Acoustic or sound dampening properties results in a significant decline in in-use noise levels and vibration. This reduces the need for sound insulation and dampening.
- Thermoplastics are easy to mould, shape, form and machine – reduces costs on machining and tooling and expands applications scope because of ease of use. (Refer to the image below for machining benefits.)
- Low thermal conductivity – Keep heat in or out.
- Minimized maintenance when used in especially architectural and building and construction applications. No painting and very little cleaning required.
- Hygienic / Easy to Clean / Dirt will not penetrate the surface of most grades of plastics.
- Resistant to environmental decay – will not rot, swell, splinter or degrade.

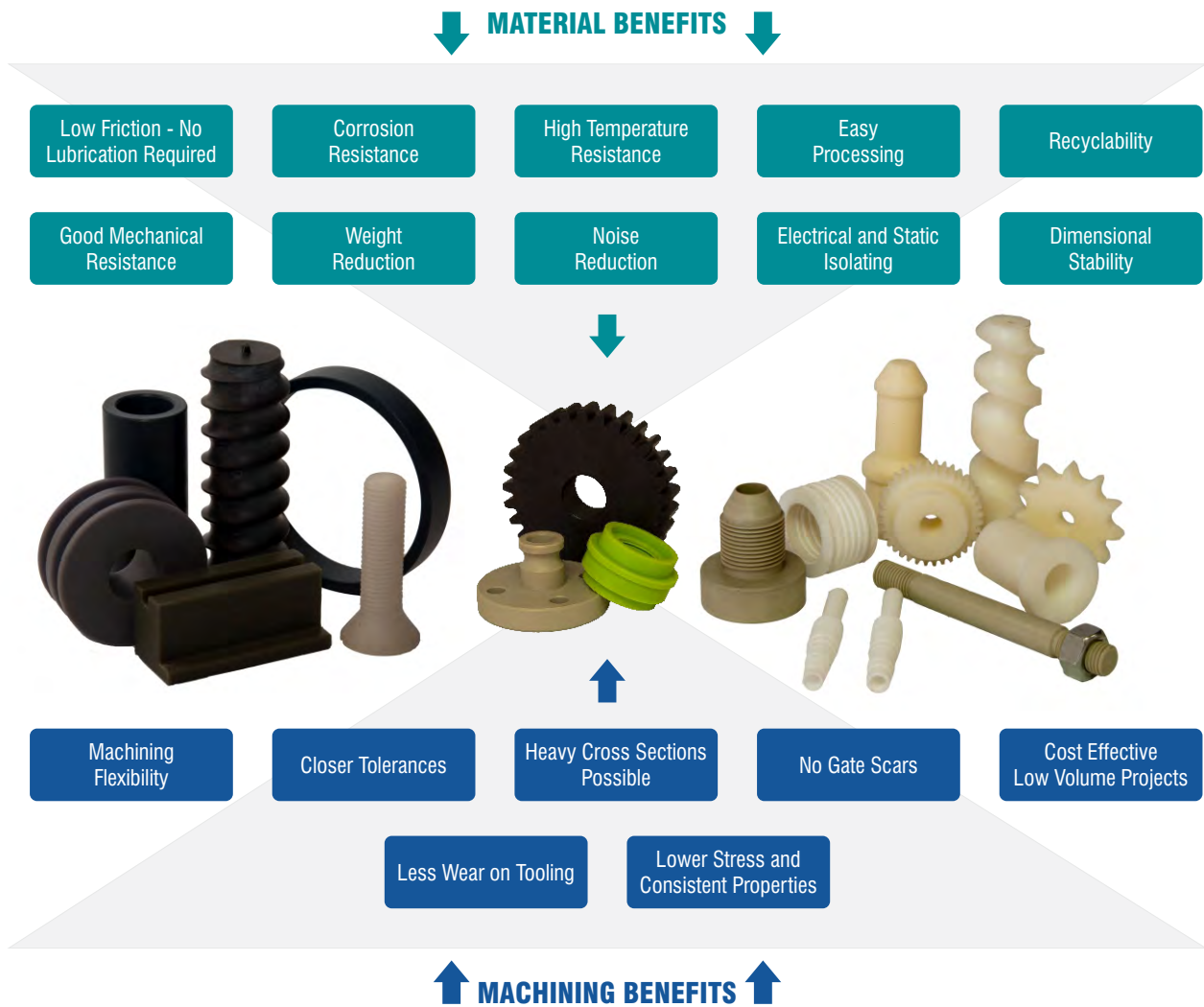


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Maizey Engineering Plastics are specialists in their field and offer high levels of material selections advice and applications development support across a wide range of industries. A wide spread distribution footprint in Southern Africa ensures product availability, whilst high levels of technical expertise means they excel in delivering innovative applications in exciting new industries.

Maizey EPP represent a number of world-leading ISO accredited suppliers, ensuring consistent product quality and availability.

KEY FOCUS AREAS

- Semi-finished Materials Distribution
- Applications Development, Support and CAD/CAM Design
- Machining and Industrial Fabrication

As the plastics industry has evolved, new grades of plastics opened the doors to many interesting applications and today these innovative materials are deployed in hundreds of industries where they perform key functions.

FOCUS INDUSTRIES

- Building , Construction and Heavy Equipment
- Mining
- Transportation
- Agriculture
- Food and Beverage (Unit Handling)
- Chemical Processing
- Water and Waste Water Processing
- Oil and Gas
- Power Transmission
- Architectural
- Life Sciences / Medical
- Safety and Plant Protection

