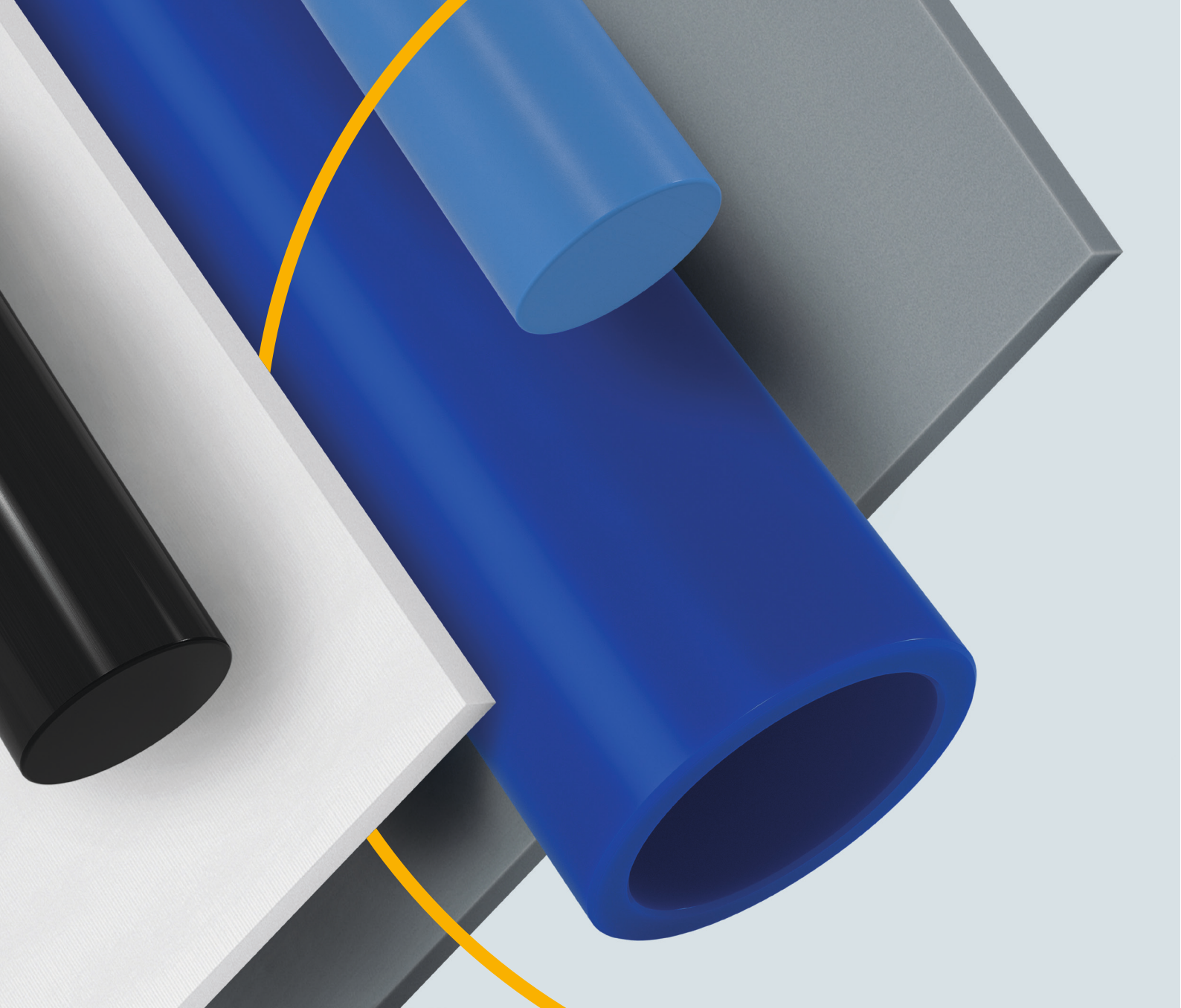




Engineering plastic solutions

**Company profile and material portfolio
for heat, wear and corrosive applications**

Making next-generation product solutions possible

About us

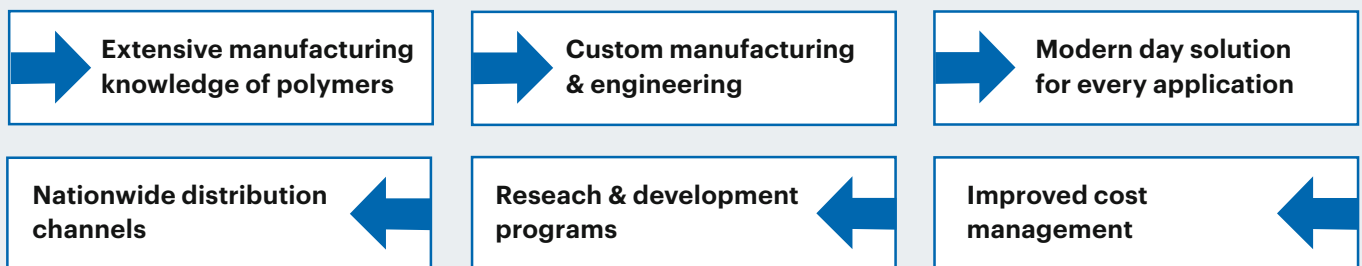
The Engineering Shapes & Solutions Division of Mitsubishi Chemical Group (MCG) specializes in the development, processing, manufacture and application of advanced and innovative high-performance thermoplastics and composites. Headquartered in Lenzburg/Switzerland, MCG's Engineering Shapes & Solutions Division spans 19 countries and has more than 3,000 employees who support you and drive the development of new products and applications for you.

Our organization is certified according to ISO 9001:2015 standards.

Capabilities

In the South African market, we are a leading manufacturer of high-quality KEYLON™ PTFE, TIVAR™ UHMW-PE shapes, Nylatron™ Cast nylons, and machined parts. For the chemical equipment segment, we supply products for all heat, wear and corrosive applications. Our group is specialized in:

- Manufacturing of semi-finished, machinable polymer stock shapes;
- Component design prototyping and performance valuation;
- Component fabrication/manufacturing in our state-of-the-art CNC technical centre;
- Design, manufacturing and installation of low-friction lining systems;
- Design, manufacture and installation of corrosive resistant systems.



Global brands

Ertalon™ PA extruded nylons, Ertalyte™ PET, Ertacetal™ and Acetron™ POM, TIVAR™ UHMW-PE, Ketron™ PEEK, Fluorosint™ PTFE, Techtron™ PPS, Proteus™ PP, Duratron™ PBI/PI/PEI/PAI, Semitron™ electrostatic dissipative plastics, and DURAPRO™ truck liner.

Global material and applications expertise at every stage

Markets served

We partner with engineers, OEMs and suppliers to help deliver high performance engineering material and application solutions to leading industries around the world. From aerospace to renewable energies, food & pharma and beyond, we're helping customers get their ideas to market faster, safer and more sustainably:

- Paper & Pulp
- (Petro)chemical
- Mining
- Bottling & Canning
- General Engineering
- Power Generation
- Food & Pharma, Packaging
- Unit Material Handling
- Transportation
- Textiles



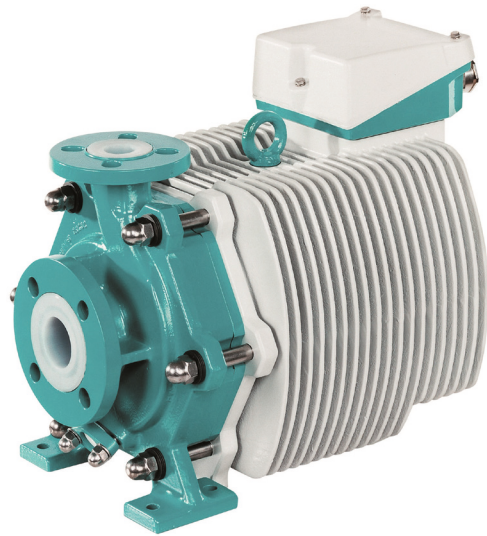
Specialty products and solutions for heat, wear and corrosive applications

Pump solutions for aggressive environments

Mitsubishi Chemical Group provides you with ideal high-performance plastic pumps, fit for use with aggressive, abrasive, and toxic media. All pumps satisfy the highest security and safety specifications, including ATEX, and our teams work with you to find the right solution for your application and operating needs.

The Engineering Shapes & Solutions Division of Mitsubishi Chemical Group (MCG) in South Africa is the sole agent for WERNERT pumps and spares in Southern Africa, and we supply a full range of products into manufacturing and mine sites across South Africa.

WERNERT pumps are considered a market leader in chemical transfer pumps across the world, providing high quality and performance while pumping high-risk chemicals, problematic fluids, or other challenging media. WERNERT pumps are made with our portfolio of engineering plastics, supported by cast steel for maximum



performance and reliability. For nearly 100 years, our partnerships have led the way in innovation, with plastic pumps now available for applications requiring centrifugal, grinding, and magnetically coupled pumps as well as submersible and vertical pumps.

Applications:

- For aggressive, abrasive, or toxic media

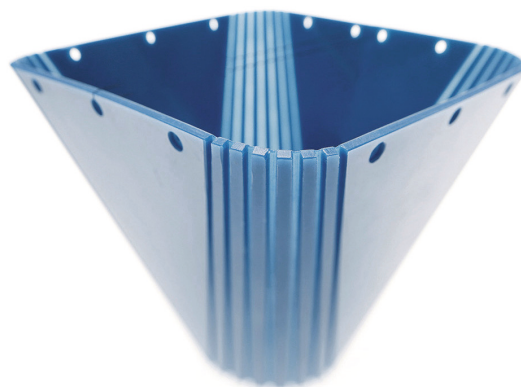
Main characteristics:

- Thick-walled interchangeable plastic parts
- Competent handling of aggressive fluids
- Grease or oil lubrication
- Unique axial face seals
- External flushing for solid-laden liquids
- Optimized impellers

Plastic liners for improved bulk material flow

In bulk materials handling, linings help reduce friction between the material being transported and the beds, chutes, and storage facilities that it comes into contact with.

Because of the amount of movement across shared surfaces, a lining material needs to minimize friction and resist damage. From parcel distribution to bulk raw materials handling, our custom lining offering helps enable and improve mass flow. Our advanced polymers are self-lubricating and abrasion resistant, improving performance and reducing blockages and downtime.



Applications:

- Bins
- Bunkers
- Silos
- Hoppers
- Chutes
- Transportation

Main characteristics:

- Tough
- Inert
- Abrasion resistant
- Self-lubricating
- Antistatic grades available
- Reducing blockages and downtime

VERSIV™ PTFE coated fabrics and belts

Developed in partnership with Versiv Composites Limited, the VERSIV™ portfolio of non-stick solutions is suitable for a wide range of applications requiring superior release, dimensional stability, and thermal stability. These advanced materials are specifically designed for demanding operating conditions. You can count on them for reliable performance in temperatures as high as 260°C.

Versiv composite materials offer barrier protection, dielectric control insulation and mechanical stability across a range of challenging conditions, such as withstanding temperature extremes or chemical exposure. They also reduce friction to extend equipment lifespan and provide non-stick easy release properties to benefit various applications where hygiene and efficiency are crucial.



Fabrics images source and copyrights: Versiv Composites Limited

Applications:

- Mechanical applications with extreme temperature and chemical exposure.

Main characteristics:

- Dimensionally stable
- Chemically inert
- Non-stick release
- Insulation
- Friction and dielectric control
- Barrier protection
- Extreme temperature resistance
- Strength
- Flexibility

Materials that push boundaries

Our portfolio of thermoplastic stock shapes and machined parts

TIVAR™ UHMW-PE (Ultra-high molecular weight Polyethylenes)

- TIVAR™ 10-100, natural
- TIVAR™ 10-801, black
- TIVAR™ G12
- TIVAR™ DS
- TIVAR™ Ceram P
- TIVAR™ 88
- TIVAR™ 88.2 (weldable)
- TIVAR™ Confetti (recycled)
- Ultralene™
- TIVAR™ Wearstrips and Profiles, extruded and machined

KEYLON™ PTFE

- Skived and moulded sheets
- Unsintered cordseal
- Threadseal tape (standard and oxygen grades)

General Engineering Plastics

- Nylatron™ PA cast nylons (PA6, PA66)
- Ertalyte™ PET, natural & black
- Ertacetal™ C POM-C, natural, black
- Ertacetal™ H POM-H, natural, black

Advanced Engineering Plastics

- Ketron™ PEEK
- Techtron™ HPV PPS
- Life Science Grades

Mass transfer products

- Random packing (saddles, pall rings)
- Structured packing
- Mesh demister pads
- DENSTONE® ceramic support media
- Bursting discs

Precision machined components

- Machining of all engineering plastics
- For cutting-edge applications
- State-of-the-art machining capabilities and technologies



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