

Technical Application Expertise

Operating from within our Division's 'Centres of Excellence', BMP's Development Engineers and Material Specialists work closely with our Technical Sales teams to provide solutions that meet our customers unique design challenges.

Wherever possible we encourage our Customers to work closely with our Engineers for the purpose of generating ideas in order to see how existing products can be designed and manufactured in such a way as to improve performance, and when required, by providing unique intelligent solutions and product designs of our own.

By involving our customers and material suppliers on an international basis we can provide alternative materials and methods of manufacturing right through from concept to commercialization or from existing product specification to an improved performance specification.

BMP incorporates this business philosophy in such a way that it now forms an integral part of our organization helping both our Customers and BMP achieve the required goals in terms of product and profitability performance.



Key Expertise

- Textile Technologists
- Polymer Chemists
- Mechanical, Process/Industrial and Procurement Engineers
- Chemical
- Prototype Machine Build & Product Sampling
- Standard CAD Software/3D Modelling
- Testing facilities

Clean Room

- Environmental Chambers
- Office Environmental Chamber
- Textile and Chemical Analytical Labs

Testing Equipment

- Non-Contact Coordinate Measuring Machine (CMM)
- Scanning Electron Microscopes (SEM)
- Differential Scanning Calorimeter (DSC)
- Infrared Spectroscopy (IR)
- Programmable Temperature Controlled Rheometer
- Mechanical Property Tester (Instron)
- Absorption, Extraction, & Titration Study Lab

Understanding Engineered Textiles & Textile Applications

You see challenges,
we see solutions

BMP thrives on unique opportunities and challenges presented by producing high-performance textiles for the most demanding applications. Our existing product portfolio and our technical expertise make the most severe operating environments and conditions seem routine, developing and producing textiles that perform effectively and efficiently.

With product composition ranging from polyester and polypropylene to such high-performance fibres as Aramid, PTFE and PPS, it is likely that we already offer a product that meets most of our customer's requirements. Add this to a broad range of mechanical finishes and treatments, and you have one of the most complete lines of general purpose and specialty fabrics provided by a single manufacturer.



Non-woven textiles are fabrics that are produced by mechanically, chemically, or thermally interlocking layers of fibres, filaments, or yarns. Thermal bonding is a technique for bonding fibres of a web using a conductive or convective heating method.

For special cases the non-woven may be hydro-entangled, spun-bond, or membrane composite.

Depending upon your specific requirements BMP will design a felt utilising various fibre chemistries, fibre sizes, felt construction methods.

Understanding Engineered Polyurethane & Polyurethane Applications

Polyurethane is a resilient, flexible and durable polymer material that is found in thousands of applications across a wide range of industries.

It can be formulated to provide extremely rigid materials through to soft formulations and foams. Since its invention in the 1940s, polyurethane has been used in a wide range of applications, from baby toys to airplane wings, and it continues to be adapted for contemporary technologies.

BMP is one of the World's leading processors of polyurethanes utilising the latest material technologies providing an exceptional technical capability.



BMP is vertically integrated into the manufacture of high specification Spin Cast Polyurethane sheet and Moulded Polyurethane components.

BMP can formulate and manufacture polyurethanes that meet clients critical to function requirements and where necessary, provide bespoke parameters that include hardness, abrasion resistance, elongation, resilience, flame retardency, UV light stability and colour.



In-house CAD, tooling capability, vacuum casting vessels, curing ovens, humidity/temperature controlled testing labs and die stamping/cutting equipment combine to make BMP a truly world-class Polyurethane processor.



BMP's custom Polyurethane systems utilise the latest material technologies providing clients with an exceptional technical competency. In-house CAD, tooling capability, vacuum casting vessels, curing ovens, humidity/temperature controlled testing labs and die stamping/cutting equipment combine to make BMP a truly world-class Polyurethane processor.



Remanufacturing

BMP is committed to a comprehensive global program of recovery, recycling, recharging and remanufacture.

Preserving the world's finite resources will become an important challenge for manufacturing companies in future years. BMP is already closely committed to working with its customers and suppliers to identify opportunities for re-using metals, plastics and paper. We actively encourage supplier participation at component design stage in order to identify environmentally friendly raw materials which can be easily recycled.

Many of BMP's products are consumables being replaced by end users or service engineers following a pre-determined life cycle. In many cases this hardware/asset can be re-used. BMP is focused on helping you recover these assets and turn environmental responsibility into sound business economics.



BMP's 4R's process

Recover and Disassemble

BMP disassembles your original modules or components at the end of their life service. Our trained technicians then examine and evaluate their condition.

Recycle

Our technicians immediately identify components that cannot be re-used and designate them for recycling.

Recharge

BMP renews your module or component by refilling or recharging it with new consumable raw materials. All reusable components going into the remanufacturing process are strenuously cleaned to like-new condition.

Remanufacture

BMP reassembles your component and restores it to the operating condition of a new product.



In addition to benefiting the environment in the form of reduced waste, remanufacturing also helps our customers become more profitable by lowering costs.

Corporate and Social Responsibility

BMP is also committed to ensuring a high standard of ethical and environmental trade practices, including the protection of workers' rights, across its global businesses and expects its Suppliers to demonstrate a similar commitment to ethical and environmental best practice.

BMP provides a safe and healthy working environment for all its world-wide employees.

BMP also invests in its local communities sponsoring good causes, together with making donations to charitable organisations.

Health, Safety and Environmental

Health & Safety

BMP is a member of the British safety Council and maintains a Health and Safety management system that complies with guidelines set out in EN ISO 18000.

BMP provides a safe and healthy working environment for all its world-wide employees, subcontractors and clients.

Quality

BMP is accredited to ISO9001 (2008) Quality Management System, where products are delivered right first time, on time and according to customer specifications.

This means that quality is inherent in everything that BMP does, where every employee is empowered to take responsibility for the quality of the product they produce or the service they provide.

Environmental Impact

Preserving the world's finite resources will become an important challenge for manufacturing companies in future years.

BMP is already committed to working closely with its customers and suppliers to identify opportunities for re-using metals, plastics and elastomeric products.

BMP is ISO accredited and actively encourages supplier participation at project design stage in order to identify environmentally friendly raw materials which can be easily recycled.