



mason grogan
INDUSTRIAL

SPECIALIST MATERIALS FOR DESIGN ENGINEERS



MATERIALS INTELLIGENCE[®] FOR DEFENCE



Personal
Protection



Equipment
Protection



Vehicle Comfort
& Safety



Footwear
Performance

Our mission is to advance Design, Development and End Product performance by providing Materials Intelligence[®].

Our expertise and extensive global knowledge of innovative materials and technologies assists manufacturers, engineers and designers meet their product design, manufacturing and performance challenges.

We live and breathe materials

We bring Materials Intelligence® to the table in the early stages of product development and partner with customers to develop whole solutions. Mason Grogan has worked with diverse manufacturing industries and global networks of material manufacturers for over three decades and this has given us a deep understanding of materials, performance specifications, test methods, production techniques and design challenges.

Extensive knowledge and network of Global innovative materials and technologies

Detailed understanding of Industry, Manufacturing processes, Specification/ Standards and Test Methods

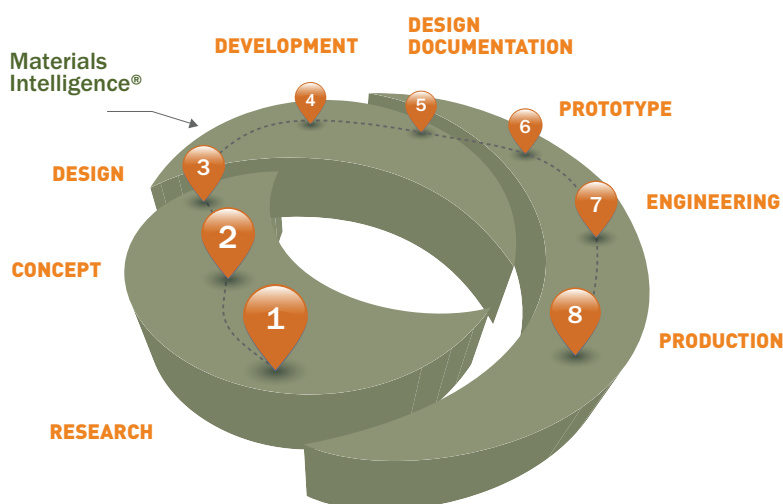
Materials Intelligence®

Detailed understanding of products – Technical and Performance

Extensive knowledge of converting methods and Network of converters

Our Process

Our process is one of Discovery, Development and Delivery



Our Capabilities

Engagement to define the design, manufacturing or performance challenge

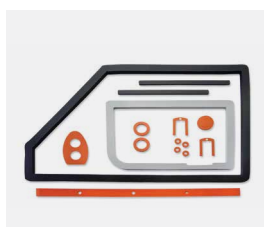
- Identifying best-in-class technical solutions
- Technical advice on materials and the optimum converting method
- Research and development for tailored material solutions
- Prototype parts for testing
- Third party testing to International Standards
- Production
- Warehouse and Distribution to meet manufacturing requirements

Challenges Ahead



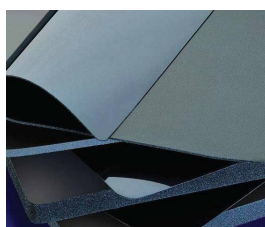
Shock & Impact

- Display protection
- Impact absorption
- Shock absorption



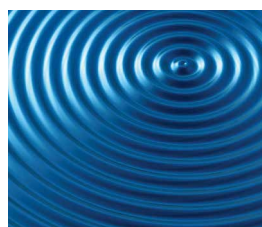
Sealing & Gasketing

- Ingress protection
- Gaskets and gap filling
- Enclosure panels
- Door and window seals



Cushioning & Pads

- Custom contouring
- Comfort cushioning
- Vehicle seating
- Battery pads and springs
- Spacers
- Grounding and shielding



Acoustics & Vibration

- Noise, vibration and harshness (NVH)
- Damping and isolation
- Sound blocking and absorption
- Sound attenuation



Heat

- Fire containment
- Fire barriers
- Thermal insulation
- In vehicles and equipment

Protection of Personnel & Assets

We are specialists in elastomeric, textile and non woven materials and their use in protecting personnel and assets.



Personal Protection

Wearable protection for our greatest assets – people.

Protective apparel must be engineered to provide reliable protection often in extreme conditions. It must be comfortable, ensure ease of motion and absorb extreme and repeated impact.

Poron XRD® – Strain rate dependent elastomers are lightweight, flexible and breathable and instantly dissipate force on impact. For Helmet, Elbow, Knee and body protection.

Poron® SRS – Elastomers with controlled rate of return for contoured cushioning and improving pressure distribution under load carrying conditions. For footwear, back packs and belts.



Vehicle Comfort & Safety

A diverse range of specialty materials for use in transport operating in extreme conditions. Solutions include cushioning systems, thermal and sealing materials which meet stringent standards for fire, smoke and toxicity in confined environments. Sound barriers and noise attenuation materials. Fire Barriers for 1000°C+, Intumescent fire stops and specialised self fusing silicone tapes for cable harnessing in high temperature environments.



Equipment Protection

A range of elastomers specifically engineered for ruggedising, shielding and sealing equipment.

Poron® Urethane and Bisco® Silicone foams absorb and distribute impact energy, dampen and isolate vibration and provide Ingress Protection (IP), to protect sensitive electronic equipment. Used in consoles, displays, rugged mobile laptops, keyboards, communications equipment and handheld devices.

As devices become thinner, lighter and more compact the need for ultra thin materials which provide internal energy absorption as well as electrical grounding and shielding arises. Poron® Condux Plus offers high, reliable electrical conductivity and excellent mechanical properties.

Life of the product conformable gaskets and gap fillers which seal out water, dust, debris, light, air and electromagnetic interference in extreme conditions. Seals and heat shields up to 200°C and in high pressure applications.



Footwear Performance

An extensive range of technical materials for footwear which aid in minimising strain and injury and maximising soldier mobility and endurance. Shock absorption materials for protection of limbs and joints. Technical fabrics with outstanding durability for moisture and heat management and reducing shear within footwear.

Mason Grogan Industrial
Materials Intelligence® for Defence

For more information on Materials Intelligence®
For Defence products please contact

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