

Automotive Interiors

Global Solution Provider



**Speciality materials
supporting our green
transformation**



Automotive Interior Solutions



Through sophisticated design and unique materials, automotive interiors create an experience that fills the senses. From the look and feel to the sound and smell, material selection defines that experience. Mitsubishi Chemical Group partners with customers to create safe and comfortable environments that have a lasting, positive impact on the occupants—not the earth. Whether designing an interior that evokes comfort or durability, we have the material science expertise to create the aesthetics and haptics to bring your vision to life.

Partnership

From reimagining lightweighting structural applications that reduce fuel consumption to redesigning parts to reduce components and processes, our customer-centric approach ensures mutual success. With a focus on decreasing the environmental impact, we partner with customers to develop solutions to their most challenging problems.

KAITEKI | Our Philosophy

At Mitsubishi Chemical Group, sustainability is more than a concept—it's a way of life. Through our focus on improving the health and well-being of people and the planet, we create innovative sustainable solutions globally. The sustainable well-being of people and our planet Earth—we call it KAITEKI.

We believe our role in the chemical industry is to be partners in innovation, developing material solutions that support a circular economy and sustainability of the earth and society. This overarching KAITEKI Philosophy is our guiding principle as we use LESS to have MORE.

LESS RESOURCES

Our technologies extend the loop, conserving resources by transitioning to bio-based and recycled raw materials.

LESS IMPACT

We decrease our impact on the environment through advanced resin innovation and developing lightweight materials.

MORE PRODUCT LIFE

Extending the material properties for extends the useful life of products.



Bio-Based



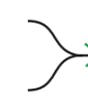
Recyclable



Recycled Materials



Light Weight



Process Elimination



Low VOC



Parts Consolidation



Automotive Interior

Product	Description	Key Features							
Acrypet™	PMMA	Crystal-clear transparency, high UV resistance and light transmission		•		•		•	
BENEBIOL™	Bio-based PCD	Bio-based material with excellent flexibility and transparency	•						
CF-FMC	Carbon Fiber Forged Molding Compound	Lightweight CF-reinforced composite with strength and ease of molding				•	•		
CLEARFIT™	Optically Clear Adhesive	Crystal-clear adhesive layer							
Diakon™	PMMA	Superb transparency and adjustable light transmission. Light diffusion & edge lighting							
DURABIO™	Bio-based Engineering Plastic	Bio-based material with high transparency and good heat and impact resistance	•			•	•		
FUNCSTER™	LGF-PP	Lightweight, unmatched glass dispersion				•	•		
GMT™ GMTex™	Glass mat-reinforced Thermoplastic Composite	High impact resistance, strength and durability		•		•			•
Hostaphan™	PET Film	Extremely high tensile strength, impact resistance and dimensional stability							
KyronMAX™	Structural Thermoplastic Composites	World's strongest injection moldable thermoplastic		•		•	•		•
Marvyflo™	PVC Slush	Impeccable finish and feel. Bio-based grades available	•			•			
MOSMITE™	Antireflective Film	Moth Eye-type Antireflective Film, with superb anti glare properties							
Nichigo G-Tape™	Masking & Protection Tape	Patented technology, hand tearable, residue-free					•		
Pyrofil™ Grafi™	PAN-based Carbon Fiber	Excellent strength and stiffness				•			
SUNPRENE™ VINIKA PVC		Excellent abrasion resistance and colorability						•	
SymaLITE™	Low-weight Reinforced Thermoplastic	Durable, noise-insulating composite sheets	•		•	•	•		
TEFABLOC™	TPE	Soft, flexible and multi-material compatibility		•					
THERMORUN™	TPO	Excellent physical properties, elasticity and durability				•			
TREXPRENE™	TPV	Heat and UV stabilized, wide range of durometers				•			
Xantar™	PC & Blends	High impact strength and dimensional stability						•	

SUNPRENE™ | TEFABLOC™ |
VINIKA™ | TREXPENE™

THERMORUN™
Hostaphan™

SymaLITE™

FUNCSTER™

SUNPRENE™ | VINIKA™ |
TREXPENE™

KyronMAX™

CLEARFIT™
MOSMITE™

Nichigo G-Tape™

DURABIO™

Acrypet™
Diakon™

GMT/GMTex™
KyronTEX

BENEBIOL™
Soalon™

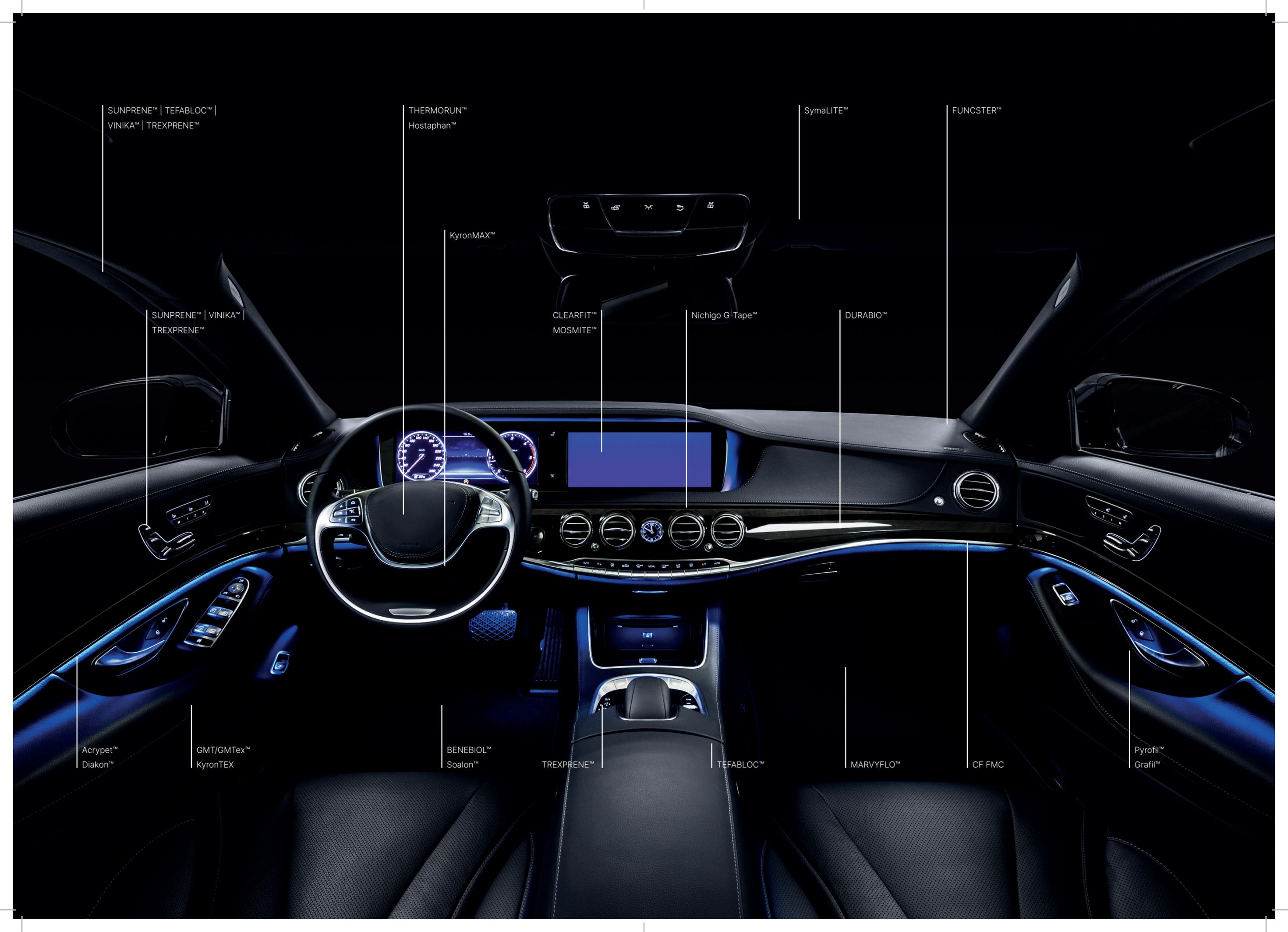
TREXPENE™

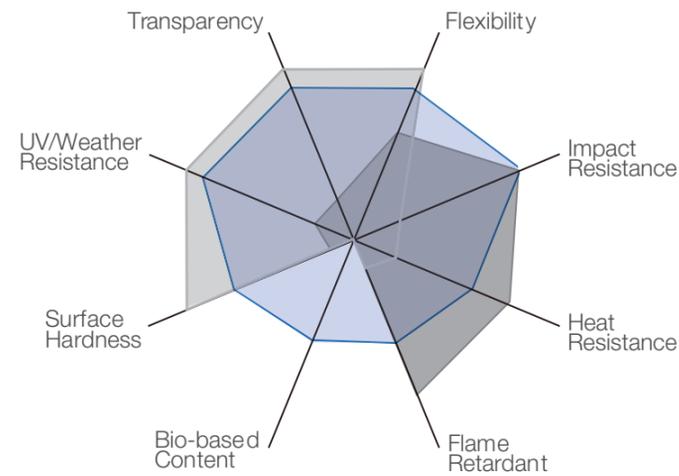
TEFABLOC™

MARVYFLO™

CF FMC

Pyrofil™
Grafil™





DURABIO™ | **PMMA** | **PC**

Innovation

Today, consumers demand more sustainable solutions, driving the need for technology development in materials, manufacturing, and end-of-life impact. As a vertically integrated manufacturer, Mitsubishi Chemical views material innovation through a sustainability lens, and develops custom solutions that address application challenges while also reducing negative environmental and social impacts.

Our sustainable materials support our customers in fulfilling their goals as well as the market demands by offering added value throughout the supply chain. Mitsubishi Chemical material technologies include offerings that:

- Enhance performance and functionality
- Offer state-of-the-art design
- Result in less waste at the end of life
- Optimize energy and resources
- Have less impact on the environment

Carbon Fiber

Fully Vertically Integrated Material Supply Chain
Mitsubishi Chemical Group is uniquely positioned to be able to provide a fully integrated material supply chain for Carbon Fiber - from raw materials to composites to molded parts.



Sustainable Innovation

DURABIO™ Bio-based Engineering Plastic

With a focus on sustainability, Mitsubishi Chemical Group has developed DURABIO—a partially bio-based engineering polymer that bridges the advantages of Polycarbonate (PC) and Polymethyl Methacrylate (PMMA).

This innovative, renewable material exhibits extraordinary properties designed explicitly for scratch and impact resistance while also having durable transparency. DURABIO material has a high-class finish that can be molded in color. This ideal sustainable material for interior applications eliminates post-processing while responsibly using resources.

Airbags

Safety is fundamental in the automotive industry, and airbag systems play a crucial role. For several decades, Mitsubishi Chemical has been the go-to material solutions partner for airbag components such as chutes, covers, and housings, providing high-quality materials that meet or exceed the highest OEM and Tier 1 safety specifications.

- THERMORUN™ TPE** | Airbag covers & chute channels
- Xantar™ PC-ABS** | Airbag cladding, pillar trim
- Hostaphan™ BO-PET Film** | Seat airbag detection systems

Controls

Aesthetics, comfort, and durability—essential automotive control features—are at the core of our polymer design. The high-touch areas of the vehicle, such as the steering wheel, buttons, knobs, and levers, must deliver an enhanced experience to occupants that stands the test of time. Durability is put to the test with extreme temperatures, UV exposure, cleaning agents, general wear, and more, while maintaining aesthetics. Many automotive interior designers specify Mitsubishi Chemical Group materials and additives to ensure superior aesthetics and haptics with the ultimate processability and performance.

- SUNPRENE™ VINIKA™ PVC** | Soft-touch buttons & knobs
- TREXPENE™ TPV** | Soft-touch buttons & knobs
- TEFABLOC™ TPE** | Soft-touch buttons & knobs
- Xantar™ PC-ABS** | Buttons & knobs
- Acrypet™ Diakon™ PMMA** | High-gloss buttons & knobs
- DURABIO™** | Bio-based, high-gloss buttons & knobs





Lighting

Once purely utilitarian, vehicle interior lighting has become an essential component of aesthetics and safety in dark driving conditions. Modern and future designs utilize ambient lighting to provide a high-class driving experience. With a deep understanding of application requirements and a passion for innovation, Mitsubishi Chemical Group continually develops next-generation materials for IR gesture controls, ambient lighting, and more to provide the ultimate driving experience.

Acrypet™ PMMA | Light diffusion, edge lighting, light guides

Xantar™ PC | Interior lighting, light diffusion, light transmittance

DURABIO™ | Bio-based colored illumination, selective light transmittance

Decorative Trim

High quality interior decorative trim requires high chemical resistance, great impact resistance combined with sufficient scratch resistance. Mitsubishi Chemical Group offers a wide range of materials fulfilling the demands for superb aesthetics and functionality.

Acrypet™ PMMA | Center console trim

DURABIO™ | Mold in color trims

CF FMC | Unique carbon fiber trim

Pyrofil™ Graphil™ CF | Classic woven high-end trim

XANTAR™ | Mold in color trim

Interior Display & Infotainment

The increasing number and size of digital displays in the cockpit has brought unique challenges to manufacturers. For decades, Mitsubishi Chemical Group has had a dedicated team of researchers and engineers focused on display material design and development, making us the ideal partner for turning designer dreams into reality in the automotive space.

Designers and manufacturers must take special consideration for screens in the automotive space, as the driver's safety depends on the screen visibility. Mitsubishi Chemical Group has a deep understanding of the challenges and has the technical expertise needed to optimize driver visibility, making us your ideal partner. Some of the most used and sought-after technologies that we have introduced include biomimicry for anti-reflective films, advanced coatings, and optically clear adhesives (OCAs).

DURABIO™ | Bio-based displays & control panels

Diakon™ PMMA | Display frames

Acrypet™ PMMA | Display frames

MOSMITE™ Anti-reflective Film | Head up Displays

CLEARFIT™ OCA | Displays



Instrument Panel

The instrument panel of a vehicle is a critical component of the interior environment, serving not only as a focal point but also as a barrier to engine and road noise. Our material science has elevated the properties of skins to provide contours with an impeccable finish and soft feel that can withstand UV exposure for decades. Mitsubishi Chemical Group's expertise in compounding has perfected color matching, allowing designers to seamlessly integrate multiple materials such as skins and air vents.

Marvyflo™ PVC Slush | Decorative skin
FUNCSTER™ LGF-PP | Instrument panel structural carrier



Structure

With class 'A' finishes, interior structural components such as door and tailgate inner panels provide aesthetics as well as safety. Our expert compounders have perfected homogeneous material dissipation, creating a seamless appearance. Design possibilities are endless with award-winning innovations such as our FORGED CF FMC (carbon fiber forged molding compounds) and KyronMAX high-strength carbon fiber-based composites.

CF FMC | Interior tailgate, Structural carrier
KyronMAX™ | Steering wheel brackets
FUNCSTER™ LGF-PP | Interior tailgate, Structural carrier

Seating

Environmentally-conscious consumers and OEMs continually seek innovative materials and processes to decrease their impact. Combining the power of nature and chemistry, Mitsubishi Chemical Group has developed bio-based sustainable material solutions for vegan leather seating. Lightweight structural composites ensure passenger safety while further reducing the overall environmental footprint of seating solutions.

BENEbIOL™ PCD | Vegan leather
GMT™ GMTex™ Composite Sheets | Structure
Hostaphan™ BO-PET Film | Seat heating systems
KyronTEX | Seatback structure





Thermoplastic Elastomer Mats

Protective mats for floors, cup holders, and other storage compartments require materials to be extremely durable, resistant to abrasion and impact, and easy to clean. Our material engineers have perfected grades that endure abuse while maintaining flexibility and aesthetics.

TREXPENE™ TPV | Cupholder mats, floor mats

Cladding

Automotive cladding provides aesthetic, functional, and safety benefits for drivers and passengers alike. Originally designed for aesthetics, cladding now blends form and function, exhibiting acoustic properties that absorb exterior noise to keep the driver focused as well as mechanical properties that ensure safety and long term high quality quality finish.

SymaLITE™ LWRT | Headliner, Parcel shelf, Load floor

Dynaflex™ Dynaflo™ TPO | Cladding, Door panels

FUNCSTER™ LGF-PP | Structural Carrier, Tailgate panels

XANTAR™ | Interior Cladding

Assembly and Transport Protection

When considering vehicle assembly, transportation, and repair, ensuring the protection of screens and other delicate surfaces is critical. Mitsubishi Chemical Group has developed a multi-purpose protection and repair tape that is easily applied and removed without residue. This innovative technology is hand-tearable, eliminating the need for a knife or sharp tool. Additionally, it is easily repositionable, which reduces waste.

Nichigo™ G-Tape | Masking and Protection Tape



Supporting the world of Automotive Interiors



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