



HIGH PERFORMANCE PEEK™ POLYMERS

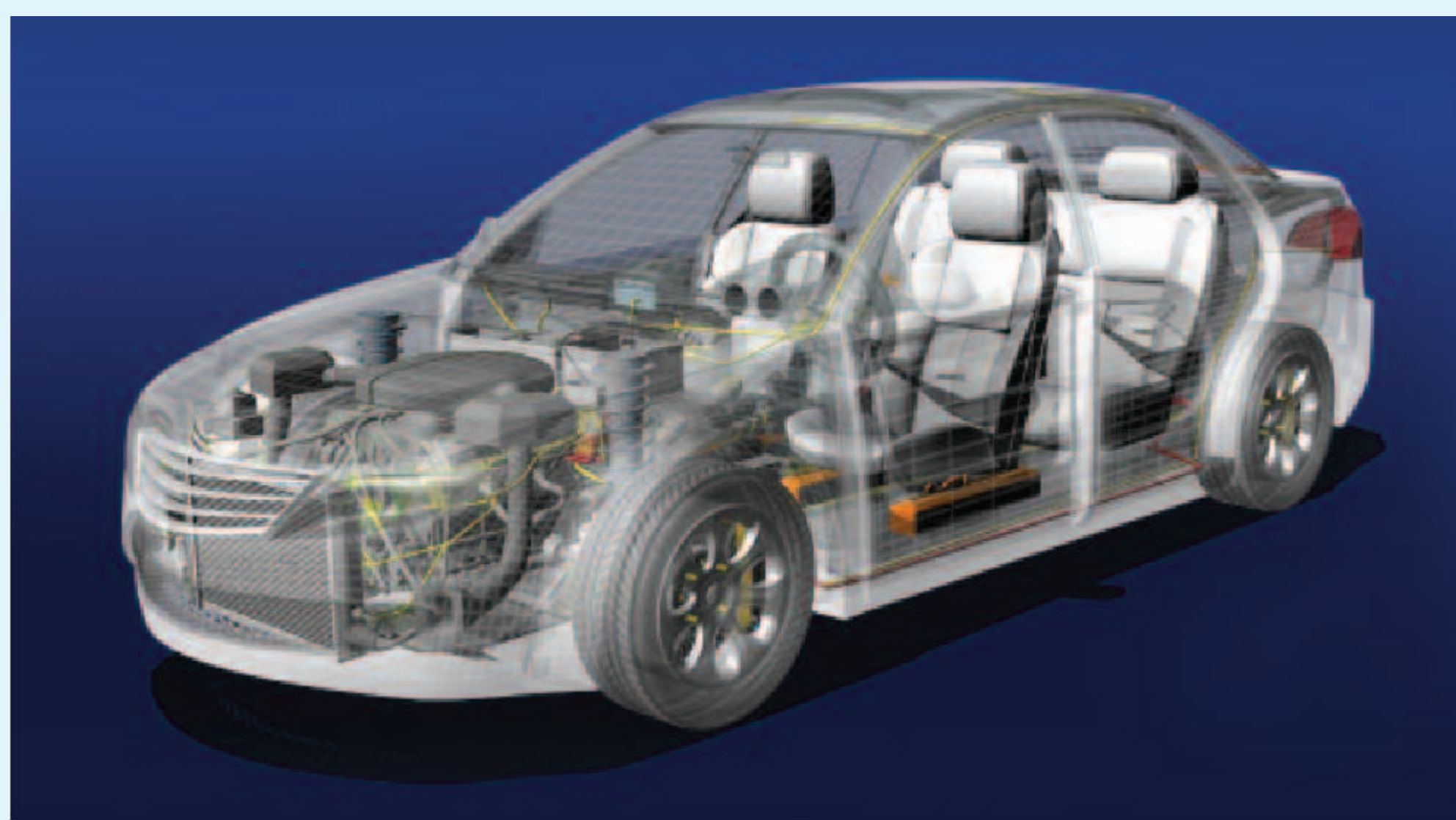
The automotive industry faces increasing pressure to maximize performance while minimizing weight and cost. Even with small cars, the trend is moving towards safer more fuel efficient vehicles.

Companies are under constant pressure to reduce overall system costs while increasing product performance, reliability and ease of manufacturing. In highly stressed automotive applications like bearings and gaskets, conventional materials can no longer satisfy the increased temperature requirements and/or are no longer competitive as a result of high processing costs.

VICTREX® PEEK™ polymer continues to successfully replace steel, aluminum, bronze, titanium, PTFE and other high performance materials, because it offers an ideal combination of mechanical, thermal and tribological properties, combined with excellent resistance to grease, oils, acids and all other automotive fluids.

THE VICTREX AUTOMOTIVE ADVANTAGE

- Global automotive team that spans the entire supply chain from design to production to assembly
- Extensive application development to support concept to vehicle production
- Optimization of material selection, design, tooling and fabrication
- Broad range of VICTREX® PEEK™ products: Compounds, Composites, Fibers/Fabrics, Stock Shapes, APTIV™ Films and VICOTE® Coatings
- Global assurance of supply
- Superior quality product for more than 30 years



BENEFITS OF VICTREX PEEK POLYMER

With the best overall property profile of any high performance material, VICTREX PEEK polymer is the unique solution for improved performance and reduced systems cost.

- High Temperature Performance
- Superior Chemical Resistance
- Strength and Toughness
- Minimal Moisture Absorption
- Dielectric Strength
- Friction Reduction
- System Cost Reduction
- Minimal to No Outgassing

APPLICATIONS

- Connectors
- Sensors
- Flexible Circuits
- Gears
- Rings and Seals
- Wire and Cable
- Slot Liners
- Spacers



Applications Areas

- **Engine**
Oil Pump, Mass Balance Gear, Cam Shaft Bearing, Washer, Turbocharger Impeller
- **Transmission**
Seal Ring, Thrust Washer, Check Ball, Fork Pad
- **Steering/Suspension**
EPS Gear, Steering Column Adjust, Ball Joints, Column Sleeve
- **Seat Adjustment**
Worm Gear
- **Damper/Clutch**
Friction Ring, Washer
- **Lighting**
Lamp Socket



- **Fuel Management**
Bushing, Pump Shoe, Fuel Liner, Quick Connect
- **Oxygen Sensor**
Wiring, Oxygen Sensor
- **HVAC**
Compressor Seals, Gears Mode Door
- **Door Modules**
Door Hinge, Roller, Gears
- **Small Motor**
Thrust Plug, Washer
- **Vacuum Pumps**
Tip, Vane, Rotor
- **Brakes**
Tappet, piston, Plunger

