Your customers are early adopters, and their technology expectations run high. Whether they’re training for a job in a cutting-edge technical field or seeking total immersion in a gaming environment, they count on you to transport them to new worlds. And when they get there, they want devices that move with them and keep the new ‘dimension’ free from distractions.

Your mission: design virtual reality hardware that keeps the player in the game. In other words, eliminate interference. The last thing users should notice is the device itself. Depending on the need for immersion, VR gear can be either used repeatedly in short bursts or worn for long periods of time. It’s important to ensure the device performs well from the first time to the last.

This is where our materials and design engineers can help. Our injection-moldable materials enhance design freedom and reduce bulk, while also managing heat-buildup and preventing cross talk. Whether you need to meet certain material specs, or are just looking to push the envelope and develop the world’s most durable, comfortable, and striking VR gear, our materials and design engineering team are ready to help you make your dreams possible.
BETTER EXPERIENCES.

VIRTUAL & IRL

The virtual reality experience isn’t just about on-screen content. It’s also about helmets that are both durable and appealing. Whether you’re designing fittings for PC-connected systems, or for smartphone-installed devices, we can help you craft a game-changing experience for the user.

WEARABLE COMFORT
Flexibility, Skin- Compatible Comfort, Soft Touch, Heat Reduction
SOLUTION: Thermoplastic Elastomers (TPEs), Thermoplastic Urethanes (TPUs), Silicone, Nylon (PA)

AESTHETIC APPEAL
Metallic and Custom Effects, FDA-Approved Masterbatch Colorants
SOLUTION: Custom Polymer Colorants, Pre-Colored Resins

WEAR PERFORMANCE
Wear-Resistance
SOLUTION: Polyester (PET), Nylon (PA), Acetal (POM)

TOUGHNESS
Impact Strength, Chemical Resistance
SOLUTION: PC/Polyester Blends, Copolyester

DURABILITY
Impact Strength, Rigid or Flexible Materials
SOLUTION: Thermoplastic Elastomers (TPEs), Thermoplastic Urethanes (TPUs), Copolyester, Polycarbonate, PC Blends, PMMA, Styrenics, Nylon (PA), Silicone

FUNCTIONALITY
Impact Resistance, Dimensional Stability, Strength
SOLUTION: Copolyester, PC/Polystyrene Blends, Polycarbonate, Styrenics

SURFACE PROTECTION
Performance Enhancing Additives
SOLUTION: Antimicrobial Additives, Scratch and Mar Additives

ERGONOMICS
Soft Touch, Easy to Grip
SOLUTION: Thermoplastic Elastomers (TPEs), Thermoplastic Urethanes (TPUs), Silicone

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Material selection is just the beginning. Now let’s bring it all together. When you understand materials and their attributes from the start, incorporating them into a breakthrough device becomes a whole lot easier. You can fine-tune every element of your gear, from design and fit to ergonomics and feel. Let us help you go from concept to reality in record time.

Virtual Reality Devices

Our materials provide comfort, durability and appeal for VR devices used in the following enterprise and commercial applications.

- **Healthcare**
  - Surgical simulation
  - Phobia treatment
  - Robotic surgery
  - Skills training
  - Diagnostics

- **Defense**
  - Battlefield simulation
  - Flight & vehicle simulation
  - Medic training
  - Virtual bootcamp

- **Real Estate**
  - Construction
  - Architectural design
  - Virtual tours

- **Consumer**
  - Video games
  - Live events
  - Video entertainment
  - Theatre
  - Virtual theme parks
  - Virtual museums & galleries

- **Education**
  - Virtual immersion
  - Global connectivity

- **Retail & Fashion**
  - Virtual stores
  - 3D human forms for design
  - 3D fashion portfolios

- **Engineering**
  - 3D modeling tools
  - Design tools
  - Prototyping

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