

SPECIALTY THERMOPLASTIC ELASTOMER (TPE) SOLUTIONS FOR MEDICAL DEVICE APPLICATIONS

Our Offering

- Full range of biocompatible TPE's
- Custom colors
- Regulatory approvals
- Analytical and physical testing
- Specialty materials for healthcare applications

Our Expertise

- 40+ years of expertise in thermoplastics
- Color harmonization across all TPE families
- Customizable and cost-effective solutions
- Rapid development

Advantages of TPE Overmolding

- Fatigue relief
- Shock absorption
- Vibration resistance
- Slip resistance
- Non-allergenic
- Non-toxic
- Non-irritating
- Excellent bondability
- Sterilizable
- Antimicrobial
- Sweat and odor resistant
- Aesthetic and ergonomic value



MARKETS & APPLICATIONS



SURGICAL INSTRUMENTATION

Robotics
Hand-held Devices
Electrosurgical Devices
Biopsy Devices



RESPIRATORY

Ventilator Circuits
Anesthesia Circuits
Continuous Positive Airway Pressure (CPAP)
Resuscitation Bags



PATIENT CARE

Vital Signs Monitors
Pulse Oximeters
Movable Workstations
Defibrillator



DIGITAL HEALTH

Wearables
Smart Devices
Point-of-Care Barcode Scanners
Home Healthcare



americhem.
HEALTHCARE

PRODUCTS AND SERVICES

Americhem's Value Proposition

TPE design and application opportunities are nearly limitless. Colorability and easy processing make them an ideal fit for many applications. Human factors and ergonomics are vital design criteria for hand-held devices. Our expertise and unbiased medical-grade material selection will transform your products helping them get to market quicker. Our collaborative engineering support, technical expertise, and unwavering customer support puts us in a leading-edge position. Our team can also provide clinical expertise when needed.

Resin Families

- PC
- ABS
- PC/ABS
- PP
- Nylon (PA6, PA66, PA11, PA12, PA610, PA612, etc.)

Americhem Services

- Color Design/Compound Development
- Fully Equipped In-House Testing Labs
- IQ/OQ/PQ Technical Molding Support
- Fast Product Development & Prototyping
- Customer Toll Processing
- Customer Trials
- R&D Sampling
 - Small lot capability
- Material Selection Expertise
- Color Design Expertise
- Testing Capabilities
 - Biocompatibility
 - Chemical Resistance
 - UL Testing
 - Physical & Mechanical Testing
 - Analytical Testing

Medical Industry Standards



OTHER OFFERINGS BY AMERICHEM

ColorFast®

Custom Color Compounds

InStruc®

Structurally Reinforced Compounds

InLube®

Internally Lubricated Compounds

InElec®

Electrically Active Compounds

Morrisville, PA, USA • Swedesboro, NJ, USA • Ribe, Denmark • Suzhou, China

Website: <https://www.americhem.com/pages/thermoplastic-elastomers>

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Medical Device Policy: <https://www.americhem.com/pages/legal>

