

PRODUCT LINE OVERVIEW

InStruc® Structurally Reinforced Compounds

Americhem is a leading global specialty thermoplastics compounder for structurally reinforced compounds. We are experts in material selection that offer the perfect combination of fillers and additives that will help keep your application and product development moving smoothly.

InStruc® Structurally Reinforced Compounds are designed to meet the rigorous demands of multiple industries.

PRODUCT FEATURES AND BENEFITS

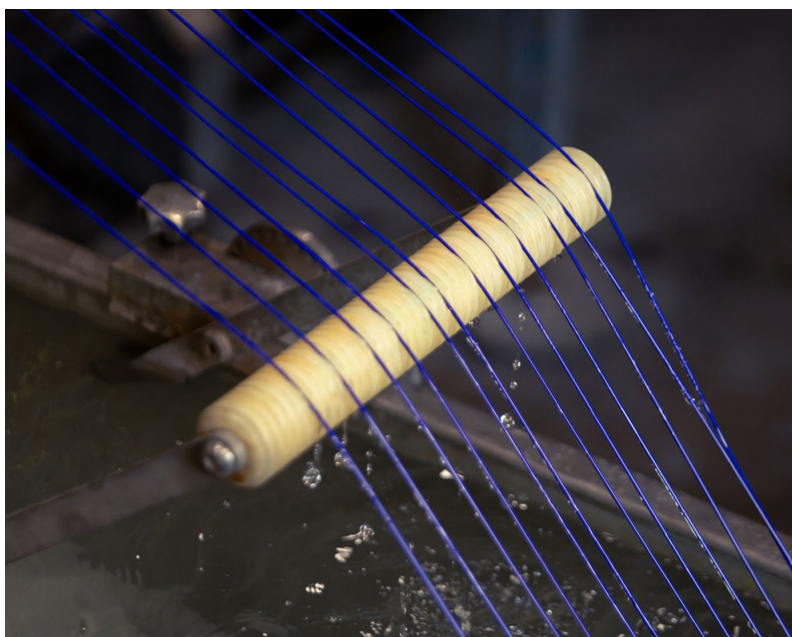
Structural compounds for metal replacement

Glass and carbon fiber reinforcement with various fillers and additives

High strength, stiffness, impact, and creep resistance

Increased HDTUL and long-term heat resistance

Available in over 30 base resins that can be custom colored to best suit your application needs



DEVELOPED TO MEET PERFORMANCE AND PROPERTY REQUIREMENTS

Americhem's InStruc® structurally reinforced compounds were developed to help our customers achieve the exact performance and properties they require. Each formulation is created according to end-product applications and specifications. We combine varying amounts of glass (fiber, milled glass or glass flakes), carbon (fiber and milled), and minerals such as mica and Wollastonite to ensure an optimal thermoplastic structure.

Along with these fillers, we can introduce several product additives, including colors, lubricants, flame retardants and UV inhibitors, to surpass expectations.

APPLICATIONS

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|---------------------------|-----------------------|------------------|
| • Medical Device Housings | • Diagnostics | • Critical Care |
| • Surgical Instruments | • Diabetes Management | • Hearing Aids |
| • Respiratory Equipment | • Drug Delivery | • Women's Health |
| • Oxygen Delivery | • Patient Monitoring | • Lifestyle |

COLOR SCIENCE THAT MATTERS

Whether you are looking to boost your brand identity or differentiate your products, Americhem has a dedicated color match department that can match any color provided to us.



Available Base Resins

Americhem has formulated InStruc® compounds in a wide variety of base resins that include:

- ABS
- ACETAL
- ACRYLIC
- ASA
- LCP
- NYLON
- PAEK
- PARA
- PBT
- PC & PC alloys
- PEI
- PEEK
- PET
- PP
- PPA
- PPS
- PPSU
- PS
- PSU
- TPE, TPU, TPV

Additive Excellence

Formulate as you wish with Americhem's vast variety of additives. This gives you the opportunity to tailor your product as needed.

- Antimicrobials
- Antistats
- Density Modifiers
- Flame Retardants
- High Specific Gravity
- Impact Modifiers
- IR Light Management
- Laser Marking
- Lubricants
- IR Light Management
- Laser Marking
- Lubricants
- Radiopacifiers
- Release Agents
- Stainless Steel
- Thermally Conductive Fibers

Available Reinforcements

Americhem offers an array of reinforcements to take your material to the next level.

- Carbon Fiber
- Carbon Powder
- Glass Fiber
- Glass Flake
- Mica
- Milled Carbon Fiber
- Milled Glass
- Wollastonite

Americhem Services

Americhem has you covered with our full technical support from design to production.

- Color Design
- Customer Trials
- Flexible Lead Time
- Global Locations
- In-House Labs
- IQ/OQ/PQ Support
- No MOQ
- Toll Processing



Sustainability & the Environment

Americhem is committed to sustainability, offering eco-friendly formulations that reduce environmental impact. This directly aligns with the growing demand for sustainable solutions to help create a positive impact.

Contact our team today to learn how our expertise and products can benefit your product development efforts.