Your challenge: to be innovative while also controlling costs and creating safe, durable, sustainable products that are appealing to consumers. From flame-retardant housings to internal structural components, we can provide you with customized solutions to help you face your challenges head-on.

Whether you’re looking for new designs and innovative shapes, unique colors or metallic finishes, we can help you find the right balance between cost and performance.

What if you could design without limits? You can with PolyOne’s unparalleled range of specialty options.

**Design with imagination:** Create complex shapes more easily while reducing assembly costs and eliminating paint. Our technical and design support services can help make it possible with tooling design, mold flow analysis and process optimization.

**Design with color:** Provide your customers with colors that are bold and durable. Our metallic color palette can open up a wide range of aesthetic possibilities.

**Design with confidence:** Safety and performance are top priorities. Our flame retardant vinyl materials meet stringent UL requirements for flame retardance.

**Design for sustainability:** Our vinyl materials are resource efficient and recyclable. And our pre-colored vinyl eliminates the VOCs associated with painting.
FLAME RESISTANCE
Vinyl is inherently flame retardant, allowing for regulatory compliance while avoiding the need for flame retardant (FR) additives.

BEAUTIFUL AESTHETICS
Because vinyl doesn't need additives to achieve FR requirements, it maintains its transparency for clear applications and, when pre-colored, allows bold hues to shine through.

UV STABILITY
With excellent UV stability, vinyl enables durable, weatherable products that resist color shift throughout their lifetimes.

CHEMICAL RESISTANCE
Vinyl stands up to harsh cleaners and disinfectants by remaining durable—no cracking or discoloration.

PROCESSING FLEXIBILITY
Vinyl can be processed by injection molding, extrusion, calendering, blow molding and thermoforming.

SUSTAINABILITY
Requiring fewer hydrocarbon feedstocks, less energy to produce, and less heat to process, vinyl is an energy efficient alternative to other polymers.

WHY VINYL?

Imagine the possibilities

Our Geon vinyl formulations are ideal for a wide variety of large and small appliance applications. Work with us to discover how we can help expand your possibilities with the versatility of vinyl.
WHEN YOU WORK WITH POLYONE

Beyond our broad product portfolio and custom formulation capabilities, when you work with PolyOne, you also receive unparalleled service from start to finish.

Technical Service
• Tool design, mold flow analysis, startup and production optimization support
• Reduced manufacturing costs and startup time

Design Services
• Industrial design, process engineering, and performance analysis
• Tooling design and time-to-market optimization

Color Technology
• Deep, saturated color matching and special effects
• Product differentiation while eliminating secondary operations such as painting

Regulatory Coordination
• Resources that aid new product approval with UL, NSF, FDA and others
• Regulatory overhead and time-to-market reductions

Our experienced technical team can provide mold design and flow analysis to help you avoid quality issues for a flawless finish.

Fill Time = 3.361 [s]