



Vinyl Solutions for the Appliance Industry

Value-Added Geon™ Compounds

Opportunities in a Dynamic Industry

New challenges and goals abound within the appliance industry as insights from users and manufacturers around the globe are inspiring innovative product designs. New materials, new features, dramatic colors, environmentally friendly materials, energy efficiency, safety, global access, and cost are all drivers in the new designs. PolyOne's ability to offer customized solutions helps customers stay competitive and add value to their end products.

Solutions That Add Value

Geon™ vinyl compounds offer a host of features and benefits aimed at boosting the value and performance of appliances:

- **Cost Performance**—Rigid Geon compounds help to **reduce manufacturing costs** through **parts consolidation** and **production efficiencies** when used as a replacement for metal and other engineering thermoplastics such as flame-resistant PC/ABS and ABS.
- **Inherent Flame Resistance**—Rigid Geon compounds meet UL requirements for safety, enabling **faster part approval**. Because no flame resistant additives are required, surface appearance (blooming) issues are eliminated and **scrap rates are reduced**.
- **Chemical Resistance**—Rigid Geon compounds resist detergents, foods, oils, and cleaners to **reduce part failures** due to discoloration and stress cracking.
- **UV Resistance**—Parts hold their color longer than competitive materials after UV exposure, **improving brand image**.
- **Superior Aesthetics**—Variety of colors and surface textures **provide design flexibility**.

Segments Served

PolyOne provides Geon vinyl solutions across a range of appliance industry segments, including:

Major Appliances

- Washer consoles
- Dryer consoles
- Dishwasher consoles
- Ice dispenser housings
- Ice maker housings
- Refrigeration control housings
- Flexible tubing
- Flexible refrigerator gasketing

Small Kitchen Appliances

- Blender motor housings
- Blender lids

Comfort Conditioning (HVAC)

- Air conditioner drain pans



Services That Add Value

Together with performance benefits, PolyOne's technical support team provides services that range from processor training and part design to manufacturing support and agency approval assistance:

PolyOne Services	Benefit to Appliance Manufacturers
Product Selection Support	An extensive array of off-the-shelf products meet requirements of appliance applications. Technical experts can also customize a solution for unique applications. Compounds are optimized for cost-performance to minimize part cost .
Field Technical Service	Representatives work closely with processors and tool builders during start-up and production to debug new tools, audit equipment, and conduct processing seminars. This helps processors reduce manufacturing costs, minimize start-up time, and reduce scrap rates .
Design Services	Our design team can assist in optimizing part and tooling design via computer simulation, which can reduce the number of iterations required to produce a manufacturing-ready tool.
Color Technology	PolyOne's color matching expertise includes deep saturated colors as well as special effects such as metallic and pearlescent finishes. Appliance manufacturers improve margins by creating differentiated products and eliminating secondary operations such as painting.
Regulatory Coordination	PolyOne has standard products that comply with stringent regulatory requirements of RoHS, UL, CSA, IEC, NSF, FDA and others. Resources are also available to aid in new product and application approvals to further reduce commercialization time for new products .
Global Supply	PolyOne's manufacturing operations in North America and Asia provide appliance manufacturers with global supply and local service .

Please contact your nearest sales office for help in creating the right solution for your industry needs.

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