

News Release

Celanese Corporation
222 West Las Colinas Blvd.
Suite 900N
Irving, Texas 75039

Celanese Material Expertise Helps IVP Plastics Advance Gas-Assist Injection Molding Technology for Tubular Auto Parts

Unique polymer and processing approach reduces weight and costs

DALLAS, FRANKFURT and SHANGHAI (June 3, 2014) – [Celanese Corporation](#) (NYSE: CE), a global technology and specialty materials company, is helping to advance gas-assist injection molding by providing material and processing expertise that [IVP Plastics](#), a provider of solutions for thermoplastic components and assemblies, is using to reduce weight and costs of tubular cooling system parts for automotive engines.

“Celanese has a long relationship in working with IVP Plastics to solve material challenges, especially those found under the hood. [Fortron](#)® polyphenylene sulfide (PPS) excels in these extreme heat and aggressive operating conditions that are pushing material limits,” said Edward Hallahan, Fortron PPS global marketing manager for Celanese.

Auto designers and engineers are looking for new material solutions that will help them meet fuel economy and emission standards. As engine compartments are becoming smaller and more compact, traditional metal tubing and rubber hoses are no longer an option.

“Our unique application of gas-assist molding technology can create a one-shot injection-molded, non-linear hollow shape with 90 degree turns and molded fastening points,” said James Mechowski of IVP Plastics. “Glass-filled, low-viscosity Fortron PPS is the ideal solution from a molding and performance perspective.”

The IVP Plastics molding process:

- reduces steps in the manufacturing process;
- eliminates traditional welding, brazing and plating processes;
- provides a more dimensionally accurate component with no chance of rust;
- reduces component cost and weight by as much as 50 percent.

“Celanese has a long history of working with global automotive original equipment manufacturers and tier suppliers on powertrain and underhood applications,” said Bob Newill, Celanese application development manager for powertrain systems. “Fortron PPS is a proven, high-temperature, chemical resistant material. In this application, Fortron PPS provides cost savings via lower reject rates, reduction in number of fabrication steps, shorter cycle times and higher process reliability.”

Fortron PPS is a semi-crystalline polymer that features exceptionally high temperature performance up to 240 degrees Celsius (464 degrees Fahrenheit); outstanding resistance to fuels, oils and solvents; excellent hardness, stiffness and dimensional stability; and inherent flame-resistance. It is often used to replace metals and thermosets in various automotive, electrical/electronics, aerospace, fluid handling and industrial/consumer applications.

About Celanese

Celanese Corporation is a global technology leader in the production of differentiated chemistry solutions and specialty materials used in most major industries and consumer applications. With sales almost equally divided between North America, Europe and Asia, the company uses the full breadth of its global chemistry, technology and business expertise to create value for customers and the corporation. Celanese partners with customers to solve their most critical needs while making a positive impact on its communities and the world. Based in Dallas, Texas, Celanese employs approximately 7,400 employees worldwide and had 2013 net sales of \$6.5 billion. For more information about Celanese Corporation and its product offerings, visit www.celanese.com or our blog at www.celaneseblog.com.

All registered trademarks are owned by Celanese International Corporation or its affiliates. Fortron[®] is a registered trademark of Fortron Industries LLC.

Celanese Business Contacts:

Engineered Materials:	Media Relations Americas	Media Relations Europe	Media Relations Asia
	W. Travis Jacobsen	Henning Küell	Amber Zhao
	+1 972-443-3750	+49-69-45009-1797	+86-21-3861-9222
	William.Jacobsen@celanese.com	Henning.Kuell@celanese.com	Tong.Zhao@celanese.com



Unique Material and Processing Approach — Celanese's Fortron[®] polyphenylene sulfide (PPS) and processing expertise helps to advance gas-assist injection molding that IVP Plastics is using to reduce weight and costs of tubular cooling system parts for automotive engines.