

# Ticona Engineering Polymers News Release



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## Ticona to Deliver Paper on Fortron® PPS for Turbocharger Air Ducts at ITB Automotive Engine Air and Cooling 2012

Florence, Ky., Sulzbach, Germany, Shanghai, PR China, May 23, 2012 –

[Ticona](#), a leading supplier of engineering polymers, is presenting a technical paper on new blow molding material developments and showcasing its high-temperature polymers for under-hood and powertrain applications during the ITB Group [Automotive Engine Air and Cooling 2012](#) conference on Thursday, May 31, at the *Sheraton Detroit Novi Hotel in Michigan*.

Ticona will present [Innovative PPS Blow-Molded Air Duct for Turbocharged Diesel Engine](#), a technical paper by Bob Newill, market development engineer and Ke Feng, product technologist, which is scheduled at 3:45 p.m.:

- The presentation will cover a brief case history on the process and production advantages for a charge air duct that was the first automotive blow molded commercial application produced from Fortron® polyphenylene sulfide (PPS).

In addition, the presentation will include information about the newest Fortron PPS material development for 3-D robotic manipulation blow molding, which uses patent-pending Ticona technology to enable one-step production of an air duct with more complex geometry.

In addition, Ticona will display under-hood and powertrain applications produced from its portfolio of high-performance engineering polymers designed for use in complex automotive components that operate in extreme, high-heat environments:

- [Hostaform](#)® / [Celcon](#)® acetal copolymer (POM) — excellent mechanical properties, inherent lubricity, chemical and fuel resistance, and broad temperature use range

- **Celanex® thermoplastic polyester (PBT)** — outstanding thermal and chemical resistance, toughness, rigidity, exceptional dimensional stability and superior electrical properties
- **Riteflex® thermoplastic polyester elastomer (TPC-ET)** — excellent toughness and fatigue resistance, outstanding chemical resistance, good low temperature impact and wide temperature use range
- **Celstran®, Compel® and Factor® long fiber reinforced thermoplastics (LFRT)** — high stiffness, exceptional toughness, long-term dimensional stability, wide temperature use range and scalable electrical properties
- **Celstran® continuous fiber reinforced thermoplastics (CFR-TP)** — unidirectional tapes, rods and profiles provide high levels of stiffness and toughness, high-performance dimensional, mechanical and thermal properties, and superior chemical and corrosion resistance
- **Fortron® PPS** — high continuous use temperature, resistance to auto fuels and fluids, inherent flame resistance and high strength and dimensional stability
- **GUR® ultra-high molecular weight polyethylene (UHMW-PE)** — outstanding abrasion resistance, superior impact resistance, chemical resistance and self-lubricating properties / low coefficient of friction
- **Vectra® / Zenite® liquid crystal polymer (LCP)** — superior thermal characteristics and dimensional stability, high strength and modulus, broad chemical resistance, low mold shrinkage, excellent electrical properties, inherent flame resistance

Ticona encourages you to visit [www.ticona.com/markets/auto](http://www.ticona.com/markets/auto). Read how Ticona engineering polymers offer a spectrum of advanced properties that are helping automotive original equipment manufacturers and tier suppliers improve quality while reducing weight and lowering production costs.

### **About Ticona and Celanese**

*Ticona, the engineering polymers business of Celanese Corporation, produces and markets a broad range of high performance products, and posted net sales of \$1,298 million in fiscal 2011. Ticona employs more than 1,500 individuals at production, compounding and research facilities in the USA, Germany, Brazil and China. For more information, please visit [www.ticona.com](http://www.ticona.com) or [www.ticona.cn](http://www.ticona.cn) (Chinese language).*

*Celanese Corporation is a global technology leader in the production of specialty materials and chemical products which are used in most major industries and consumer applications. Our products, essential to everyday living, are manufactured in North America, Europe and Asia. Known for operational excellence, sustainability and premier safety performance, Celanese delivers value to customers around the globe with best-in-class technologies. Based in Dallas, Texas, the company employs approximately 7,600 employees worldwide and had 2011 net sales of \$6.8 billion, with approximately 73% generated outside of North America. For more information about Celanese Corporation and its global product offerings, visit [www.celanese.com](http://www.celanese.com).*

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