

News Release



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Ticona to Present Paper on Unidirectional Glass-Reinforced Thermoplastic Composite Tapes at SAMPE Tech 2012

Florence, Ky., Sulzbach, Germany, Shanghai, PR China, October 18, 2012 –

[Ticona](#) Engineering Polymers is delivering a technical paper on unidirectional glass-reinforced thermoplastic composite tapes and showcasing its [thermoplastics for composites](#) at [SAMPE Tech 2012](#) on October 23 and 24 at the Charleston Convention Center in South Carolina.

The Ticona technical paper, titled "Boosting Impact Strength of Thermoplastic Semi-Structural Composites Via Unidirectional Tape-Based Fabrics & Tailored Laminates," will be presented by Michael Ruby, technology launch manager, during the [Thermoplastics Session](#) at 3:45 p.m. on Wednesday, October 24.

The paper describes methods to increase stiffness/strength and impact resistance of composites by using continuous strand, unidirectional (UD) glass reinforced thermoplastic composite tapes to produce woven fabrics as well as tailored blank laminates. Ticona conducted a study that looked at methods to increase stiffness/strength and impact resistance of an automotive underbody shield (UBS).



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Ticona, [Booth #513](#), will display its thermoplastic solutions for continuous-fiber composites used in light and tough components that can reduce weight, drive down costs and perform in extreme environments.

The exhibit will highlight an automotive underbody shield (UBS) that is manufactured from direct-long-fiber thermoplastic (D-LFT) composites and selectively reinforced with continuous-fiber semi-finished fabrics and laminates to improve stiffness and impact performance while maintaining a good cost / weight ratio.

Ticona high-performance thermoplastics and composites include:

Fortron[®] polyphenylene sulfide (PPS) with proven production performance in critical aerospace structures:

- Superior FST (flame, smoke, toxicity) performance – exceeds aircraft interior requirements
- High-temperature performance to 240 degrees Celsius (as demonstrated under-the-hood)
- Superior dimensional stability (low shrink, CTE and creep)
- Broad chemical resistance to fuels, oils, solvents, fluids, strong acids, bases (pH 2-12), even at elevated temperatures
- Substantial cost savings vs. other high-temperature polymers



Celstran® continuous fiber reinforced thermoplastics (CFR-TP) for unidirectional tapes, rods and profiles:

- Low weight with high stiffness and toughness
- Excellent impregnation technology
- High-performance dimensional, mechanical and thermal properties
- Superior chemical and corrosion resistance
- Wide range of resins, fibers and additives



Ticona encourages you to visit [thermoplastics for composites](#). Read how Ticona continues to develop thermoplastics for composites for use in aerospace, oil and gas, automotive and industrial applications.

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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 or www.ticona.cn (Chinese language).

Celanese Corporation is a global technology leader in the production of specialty materials and chemical products that 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 or the company's blog at www.celaneseblog.com.

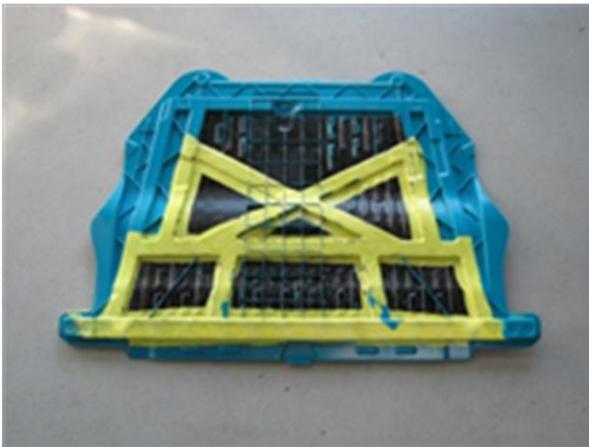
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Celstran® CFR-TP Tapes



Gulfstream G 650 Rudder



UBS II