

Gurit launches Automotive Composite Materials Range at Composites Europe 2013, Germany

17th September 2013, Zurich, Gurit (SIX Swiss Exchange : GUR), a leading global manufacturer and supplier of composite materials, engineering, tooling, finished parts and systems has today launched a new range of composite materials for the automotive industry at the Composites Europe Exhibition in Stuttgart, Germany.

Exhibiting on stand 4/D07, Gurit is showcasing its new range of composite materials for the automotive industry. The range includes:

SC 110 Cosmetic Carbon Prepreg

- **Ultra high clarity – ideal for cosmetic components with no whitewash or spots**
- **On average a 20% decrease in scrap finished parts, due to the elimination of whitewash**

SC 110 is a new cosmetic grade prepreg that utilises a high clarity, versatile hot-melt, epoxy resin formulation. The unique formulation ensures that no whitewash or white spots are evident in the cured resin. It is ideal for manufacturing high visual quality components using autoclave, press and vacuum-only processing. It can be cured at temperatures as low as 80°C, or it can be used for faster moulding of components at 120°C. This is achieved with a good out-life of up to 3 weeks at 21°C. It is a toughened system, and offers excellent mechanical properties on a wide variety of reinforcing fabrics and fibres.

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SE 200 Structural Epoxy Prepreg

- **Toughened structural epoxy prepreg with excellent hot/wet performance**
- **Fast, flexible curing options**

SE 200 is a high strength toughened epoxy system that has a flexible cure envelope ranging from 135°C to 200°C. SE 200 has been developed to enable rapid part manufacture through a number of composite processing methods. The minimum cure temperature is 135°C from which SE 200 develops Tg and strength properties at a level associated with high temperature 195°C curing systems. Higher temperature cures in excess of 180°C will achieve the best dry and wet thermal performance. Using the appropriate press moulding technology it is possible to



achieve a 15 minutes hot-in / hot-out cure at 195°C, making SE 200 suitable for the economic production of automotive parts. SE 200 Structural Prepreg can be used in the making of parts such as structural lower tubs, bulkheads, front and rear scuttles, exhaust tunnels and other structural components.

PN901 High Tg Prepreg

- **Cyanate ester prepreg ideal for components exposed to high temperatures for short durations**
- **Flexible cure cycle from 135°C to 180°C (at 180°C cure, Tg is 200°C)**

The PN901 resin is an ideal matrix system for high temperature composite applications, as it combines ease of processing and handling convenience of epoxy resins, high temperature stability of polyimides, and flame and fire resistance of phenolics. A 135°C cure for 75 minutes combined with a post-cure, enables PN901 to generate a Tg in excess of 300°C, making PN901 ideal for applications in composite structures, which are exposed to very high temperatures. The flame and smoke characteristics of PN901 composites show that this resin possesses superior flame retardant properties and holds a wide range of Aerospace grade FST (Fire/Smoke/Toxicity) standards.

Comprehensive materials and services range for any composite applications

Alongside these innovations for the automotive industry, Gurit is highlighting its full product range and its composite material engineering expertise which continuously defines new benchmarks for the use of composite materials in a growing range of industries and application. Staff from Gurit's EMEA sales and technical teams are available on the stand to discuss the latest products and projects. To find out more visit stand 4/D07.

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For further information on Gurit – EMEA regions:

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Sign-up for email alerts is available at <http://www.gurit.com/register-for-news-alerts.aspx>

About Gurit: The companies of Gurit Holding AG, Wattwil/Switzerland, (SIX Swiss Exchange: GUR) are specialised in the development and manufacture of advanced composite materials, tooling systems, structural engineering solutions, and select finished parts. The comprehensive product range comprises epoxy and phenolic prepregs, SPRINT™, structural cores (CoreCell™, PVCeCell™, G-PET™ and Balsaflex™), epoxy Ampreg and PRIME™ laminating systems, Spabond adhesives, and other related products. Gurit is uniquely positioned to serve global growth markets, and has production sites and offices in Switzerland, Germany, the UK, Canada, Spain, Australia, New Zealand, the USA, Ecuador, Brazil, India and China.

