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SIMONA at K 2010

SIMONA City illustrates expertise in process engineering and strengths in customizing New: PE/PP FOAM, SIMOPOR-DIGITAL and pressed sheets for ice rink surfaces as well as pipes and joining technology for geo-thermal applications

Kirn, 6 Sept 2010

The motto chosen by SIMONA AG for its corporate presentation at the upcoming K 2010 trade fair is "Discover Thermoplastic Solutions". Within this context, a 3D model of a city – SIMONA City – will illustrate the wide range of sophisticated applications for which SIMONA semi-finished plastics, pipes, fittings and finished parts are used. Offering best-in-class expertise in process engineering and technical consulting, SIMONA is committed to promoting the use of plastics for a wider range of high-end applications, particularly within the chemical process industry. With manufacturing facilities in China and the Czech Republic, as well as a highly focused product strategy, the company has created an effective launch pad for expansion within this field.

Among the new products to be unveiled by SIMONA at K 2010 are foam sheets made of PE and PP. SIMONA[®] PE FOAM and SIMONA[®] PP FOAM have a closed-cell foamed core and coextruded outer skins, which provides an outstanding combination of low weight and high rigidity. The result: excellent processing properties, high-quality surface finish and low water absorption.

SIMONA[®] Eco-Ice sheets made of PE are used for ice rink surfaces, thus making a major contribution to environmental protection, sustainability and energy reduction within this specific area of application. Ice rink surfaces made of low-friction plastic sheets offer tangible savings with regard to energy and operating costs. Thanks to this innovative solution, ice machines and cooling systems are a thing of the past. The ice skates can be used directly on the plastic panels, which are securely joined to one another to form an ice rink surface. SIMONA[®] Eco-Ice plastic sheets are suitable for indoor use, but can also be supplied as UV-stabilised panels for year-round outdoor use – with a ten-year warranty. SIMONA[®] Eco-Ice is available in various polyethylene designs: PE-HD (high heat resistance), PE-HMW (high molecular weight) and PE-UHMW (ultra-high molecular weight). SIMONA[®] Eco-Ice received the 2010 Industry Award and is among the top five innovations within the Energy & Environment category.

SIMONA[®] SIMOPOR-DIGITAL has been developed specifically for digital direct printing. As one of the first digital-print sheets, it has antistatic properties. This, together with the sheet's surface finish, facilitates ink acceptance even during high-speed processing. In addition, SIMOPOR-DIGITAL includes a specially developed white pigment that ensures brilliant picture reproduction. SIMONA has also come up with a high-end product tailored to the needs of door manufacturers: SIMONA[®] SIMOSHIELD - PVC-T sheets have been designed with a visible and tangible wood grain finish.

Within the area of area of deep geothermics (i.e. mine-water projects), the company will be showcasing its advanced SIMONA[®] PP-H Alpha-Plus piping system, which is designed to



withstand particularly high thermal, mechanical and hydraulic stresses. Owing to the thermal stabilisation of the polymer, the pipes are suitable for permanent use at temperatures exceeding 80 °C. Elsewhere, the SIMOFUSE[®] joining method, first developed for wastewater management in non-pressurised applications, has been refined to meet the requirements of the power supply industry and its demands for sustainable solutions. With the help of specially designed electrofusion spirals integrated within the surface of the pipe ends, pipes and fittings can be welded together to produce a homogeneous, high-strength joint.

Among the other highlights presented at K 2010 are pressed sheets made of E-CTFE, dehoplast[®] X-detect (detectable semi-finished plastics for the food industry) as well as dehoplast[®] superlining, a range of premium-quality products with outstanding tribological properties and high wear resistance – perfect for applications in mining and bulk-goods handling.

SIMONA has expanded its production capacities within the area of finished parts, as well as extending the range of materials used in this segment. Following the introduction of a new milling and turning centre at the Ringsheim plant, the company is able to manufacture a broad spectrum of highly intricate, premium-quality finished parts from virtually any type of engineering thermoplastic.

SIMONA exhibition stand K 2010 :
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