



klöckner pentaplast

press release

FOR IMMEDIATE RELEASE

Red Dot Design Award for Pentadecor® Films – made of Resysta® Rice husk and polymer composite film impresses panel of judges

Montabaur, July 4, 2016 – Although the new Pentadecor® Films – made of Resysta® have only recently been launched on the market, they have already won the Red Dot Design Award 2016. The innovative composite films are made of rice husks and high-grade polymers, are less than one millimeter thick and can be laminated with numerous surfaces. In terms of their look and feel, Pentadecor® Films – made of Resysta® are virtually indistinguishable from high-quality wood veneer and thus meet consumers' need for a natural-looking weather- and water-resistant material.

“With their performance, the Red Dot winners Klöckner Pentaplast and Resysta demonstrate their extraordinary design quality. They also show that design is an integral part of innovative product solutions”, says Professor Dr Peter Zec, founder and president of the Red Dot Award.

“Responding to global megatrends, many manufacturers and retailers are rethinking how they do business: cost-cutting system solutions, lower stock keeping units and sustainable products are in demand,” says Axel Müller, Market Development Manager for Europe, Middle East and Asia at Klöckner Pentaplast. “With Pentadecor® Films – made of Resysta® we have the perfect answer – with new system designs and easy-to-store products.”

Efficient production process thanks to successful collaboration

Today, consumers can choose between a broad variety of extruded Natural Fiber Composites (NFC) and Wood Plastic Composites (WPC) profiles. However, up to now, the production of films in 300-800µm thickness has not yet been possible due to the poor rheological behavior of highly filled compounds. In close collaboration with Resysta, the producer of a rice husk-based PVC filler (ARF), the technology and innovation department of Klöckner Pentaplast came up

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with an appropriate solution. Resysta GmbH has been developing the PVC/rice husk composite Resysta for over 10 years and has made available composite solutions for a wide variety of PVC extrusion technologies worldwide. Klöckner Pentaplast's Group Director Development Packaging & Specialties EMEA and Asia Rainer Schlicht sums up the outcome of the successful collaboration: "For Pentadecor® Films – made of Resysta®, we developed, optimized and patented a stable production process. Working as one team allowed us to create this innovative film within just one year."

About the Red Dot Design Award:

The Red Dot is an internationally renowned seal of quality for outstanding design. The Red Dot Award is organized by Design Zentrum Nordrhein-Westfalen (Germany). For further information, visit www.red-dot.de.

About Pentadecor® films – made of Resysta®

Developed both for indoor and outdoor applications, Pentadecor® Films – made of Resysta® embodies the positive properties of its two material constituents. The thermoformable natural fiber filled film serves as a wood veneer or WPC alternative. The film – made from rice husks – helps to achieve sustainability goals. Further high quality additives ensure maximum water and weather resistance, flexibility and robustness. In addition, it is sandable to a smooth wooden finish, and can be refined in a variety of colors. A direct pigment application on the surface ensures a long lasting UV-resistance. With this development in the field of natural fiber composites (NFC), the existing converting technologies (i.e. extrusion, injection molding, compression molding) were successfully extended to a new and patented calendering process. Pentadecor® Films – made of Resysta® are available in reels and formats. Considering customers specific needs, further material developments and customization are possible.

About Klöckner Pentaplast Group

The Klöckner Pentaplast Group is a global leader in providing packaging, printing and specialty solutions serving the pharmaceutical, medical device, food, beverage and card markets among others. With a broad portfolio of rigid plastic films and services powered by innovation, Klöckner Pentaplast plays an integral role in the customer value chain by marketing and protecting product integrity, safety, consumer health and ultimately, brand reputation.

Klöckner Pentaplast continuously earns high EcoVadis ratings, indicating the company's commitment to Corporate Social Responsibility throughout its global operations. kp's practices rank in the top 8% of suppliers within the respective industry classification of plastics manufacturing and in the top 12% of over twenty thousand suppliers evaluated by EcoVadis. In benchmark comparison within the plastics manufacturing industry, kp is ahead of the industry average in all four areas assessed: Environment, Labor Practices, Fair Business Practices, and Responsible & Sustainable Procurement. Klöckner Pentaplast is among the top 5% of suppliers assessed in industry classification for Environmental Practices and in the top 9% of suppliers assessed in respective industry classification of Fair Business Practices. Visit www.kpfilms.com.

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