

## Press release

### **Armacell's latest PET foam innovation on display at JEC Paris 2018: ArmaShape for large-scale production of 3D-shaped PET foam cores**

**Armacell's latest innovation, ArmaShape, brings significant benefits to many industries where lightweight yet strong plastic parts are prerequisites for a successful product design. First and foremost, the automotive industry will feel the benefits in high-volume applications such as car bodies or chassis.**

As loose PET-based beads for manufacturing ready-to-use 3D-shaped foam cores for composite sandwich structures, ArmaShape combines the high mechanical properties of structural foam cores with the advantages of particle foams, offering lightweight and strong 3D-shaped foam parts that are producible in nearly any shape. "Since Armacell's breakthrough of PET foams in the composite industry, we have underlined our technical leadership with a series of pioneering inventions – above all, our unique and patented r-PET technology to produce PET foams cores made of 100% recycled PET," says Thomas Kessel, Managing Director, Armacell PET Foams. "The launch of ArmaShape again confirms our strategy of constantly innovating environmentally friendly PET foam solutions to solve market challenges and create value to our customers," he adds.

Starting from recycled PET flakes, the polymer is granulated and further processed by Armacell's patented technology to produce ArmaShape. These PET-based beads are then filled into a mould and fused by a newly developed technology into the finished part. Thanks to a moulding technology that requires no additional production steps like milling or manual forming, ArmaShape will offer considerable overall cost savings for end applications. The high service temperature of up to +180°C opens a door to more demanding applications that are currently blocked by the limited technical performance of traditional particle foams. The fine and smooth surface structure of ArmaShape-moulded foam parts provides an excellent bond to any commercial resin and limits resin uptake without additional treatment.

Like all Armacell's PET foam products, ArmaShape is manufactured and processed in an eco-friendly manner without using CFCs or HCFCs. Furthermore, grades employing the latest generation of halogen-free flame retardants have been developed with tailored fire retardancy characteristics. Made from 100% recycled PET and recyclable again after their use phase, ArmaShape represents a highly sustainable alternative to comparable materials.

**To find out more about ArmaShape and other innovative products visit Armacell in Hall 6 / Q83 at JEC World 2018.**

## ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With 3,000 employees and 25 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams, and generated net sales of approx. EUR 560 million and adjusted EBITDA of approx. EUR 100 million in 2016. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology. For more information, please visit: [www.armacell.com](http://www.armacell.com).

For product information, please visit: [www.armacell-core-foams.com](http://www.armacell-core-foams.com)

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