

ArmaPET[®] Insights COLOUR VARIANCES

Armacell is a pioneer in the field of polyethylene terephthalate (PET) technology and initiated the breakthrough of PET foams as a structural core material in the composite industry (2005). But our research did not stop there; as a technology leader, Armacell went on to further developed its unique and patented rPET process technology that enables PET foam products to be made entirely from recycled beverage bottles (2010). Today, Armacell offers a diverse product portfolio of environmentally friendly solutions based on 100% recycled PET: structural foam cores, thermoformable flexible sheets and particle foams.

FROM THE EMPTY BOTTLE TO A HIGH-PERFORMANCE FOAM

Armacell's patented rPET technology turns single-use plastic bottles and other PET products into a long-lifetime, high-value PET foam product solution:



After collection (1), the PET products are sorted and crushed into flakes by our audited and qualified suppliers (2). The flakes are internally tested for quality and impurities after reception to guarantee the best granulation process results (3). Finally, the granules are used to manufacture the different ArmaPET products (4). After its use-phase in a wide variety of applications (5), ArmaPET products are then fully recyclable again (6).

Off cuts and waste material in the various stages of production can again be recirculated into the process and produce new ArmaPET products.

VARIOUS SHADES OF COLOURS

The final colour of ArmaPET products is influenced by the original colour scheme of PET flakes we are supplied with (2). Indeed, no colour pigments are added during manufacturing, to follow our sustainable company approach: to use well sorted post-consumer PET, free of contaminants, to work with the best material possible. As a result, the same ArmaPET product may come in different shades of colour. The most common colour is green in various shades, but it can also go to grey and brown variants, depending on the mix of colours from the PET flakes.

It is important to remember that the colour of the recycled material does not influence by any means the end quality of the PET raw material, explaining why our colour spectrum is wide. We run a thorough quality control process to qualify our PET flake suppliers to guarantee that the variances in colour does not affect the physical properties or other performance of your final applications. ArmaPET products are always supplied in conformity with the properties provided by our [technical data sheets](#).

EXAMPLES OF COLOUR VARIANCES

ArmaPET[®] Struct



ArmaPET[®] Curve



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