

CLOSING THE LOOP

ArmaPET[®] Cut-Off Reception

Armacell will receive the ArmaPET cut-off waste after your kitting operations to convert it into recycled post-consumer PET granules. And make it circulating for longer with higher added value.

www.armacell-core-foams.com



 **armacell**[®]
MAKING A DIFFERENCE AROUND THE WORLD

ARMAPET CUT-OFF RECEPTION

For many years now, Armacell has been involved in the conversion of recycled PET into foams. This is our contribution to a global switch from the traditional 'make-take-dispose' economy to a circular model based on 'reduce-reuse-recycle'. It's about closing the loop in the life cycle of plastics, making them circulate for longer and with higher added value. Armacell has perfected the process of rPET upcycling and today we are ready to take the next step: to take back Armacell's PET foam cut-offs from kitting operations or similar and convert them into recycled post-consumer PET granules.



In its **Closing The Loop** programme, Armacell will receive the post-industrial ArmaPET material that is left over as cut-off waste after conversion at the customers' premises.

There are several criteria of approval for return of the waste, the most important of which is lack of contamination. By contamination Armacell mean the presence of any kind of materials other than PET foam, whether organic or inorganic.

The impurities may come from:

- // direct conversion operations (e.g. lamination or gluing)
- // using the same machinery for processing different types of materials (e.g. dust from processing other foams than PET types of foam (PVC, SAN) or balsa wood)
- // storage and transport operations, in the case of improper or damaged packaging (e.g. metals, stones, paper, foil, water or leaves). Furthermore, the material must not be soiled or contain stains of any kind

THE APPROVED OPERATIONS ARE:

- // Cutting
- // Grooving
- // Perforation
- // Double contour
- // Thermoforming
- // Thermal welding
- // Sanding

THE FORBIDDEN OPERATIONS ARE:

- // Gluing
- // Lamination
- // Scrim application
- // Resin infusion
- // Combinations with other materials (resins, skins, coatings, adhesives, etc.)

EXAMPLES OF CONTAMINATION IDENTIFIED IN THE RETURNED ARMAPET STREAM

aluminium foil



piece of wood



plastic film



paper and cardboard



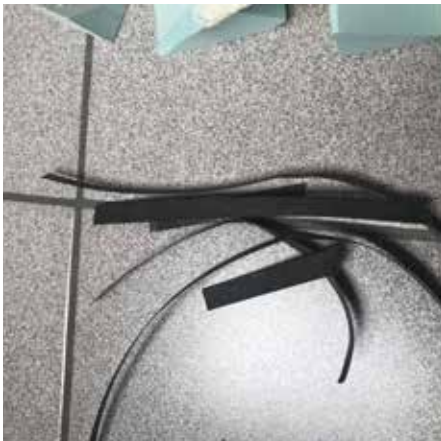
foam other than PET type



steel wire



PET straps



pen and marker



stains and damages



4// CLOSING THE LOOP

IF CONTAMINATION IS IDENTIFIED:



// In the case of the **first delivery** containing impurities, the supplier will receive a **contamination report** and will be asked to improve the internal processes to eliminate the source of non-conformities.

The impact of transportation will be taken into account by the customer. The efficiency will be dictated by comparing the cost to current or alternative waste disposal methods. Depending on the location or your plant, it might be more efficient to send the material to Armacell or to one of **Armacell's approved recycling** plants.

// In the case of **every contaminated delivery after the first**, participation in the **Closing The Loop** programme will be terminated and the full delivery will be returned to the customer, with transportation costs charged to customer.

Another condition of eligibility for the **Closing The Loop** programme is the **quantity** of collected waste. The minimum volume is one full truck load, so smaller amounts should be collected and stored until the minimum volume is reached.

ArmaPET cut-off reception and return to the recycling loop means transporting lightweight material over a certain distance.

PRODUCT PACKAGING GUIDELINE:



// Large boards should be collected on wooden pallets and properly secured for safe logistics and storage operations (e.g. using PET straps and stretch foil). The material must be arranged horizontally or vertically on the pallet. Material left loose on the pallet will not be accepted.

// The pallets can be maximum 2000 mm high. The pallet and its contents must be stable and easy to unload.

// The material should be protected from the impact of atmospheric conditions during transport and storage.

// The material should not be stored outside.

// Minimum size of pieces: one of the dimensions should be greater than or equal to 300 mm.



// Maximum size of pieces: full size board
(2448 mm x 1008 mm x thickness)

// Pallets should be packed in a way that allows
easy access for unloading.

// Each box should contain a clear identification tag
including the following information:

- › Type of material (e.g. post-industrial PET foam waste)
- › Quantity (in kilograms)
- › Supplier data

// During handling, storage, packaging and transportation,
care should be taken to ensure that the materials are not
damaged or exposed to moisture or contamination. Any
damage to the pallets must be avoided during transport,
stacking and unloading.

The pallets arrangement will be submitted for
approval to the quality department of Armacell. This
include sending photos prior to shipment of material.

In event of non-compliance, Armacell reserves the
right to charge for the collection of waste by an
external company.

Transport

Customer should organize the transport himself with
a transport company authorized / licensed to transport
waste.

For further details about this programme, please
contact our Supply Chain department:

pet.supply-chain@armacell.com

Laurent Debefve
QSHE & TTC Manager
PET Foams



Accepted and agreed by

Name
Title
Date
Signature



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ABOUT ARMACELL

As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal 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 more than 3,300 employees and 27 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

For more company information, please visit:
www.armacell.com

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