

# **ARPLANK**

THE LIGHTER, SAFER,  
ENERGY ABSORBING,

**100% RECYCLABLE &  
FULLY SUSTAINABLE  
PACKAGING SOLUTION**



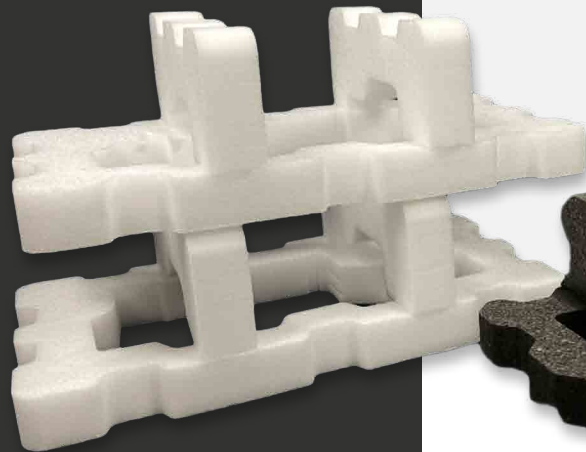
# WHAT IS ARPLANK?

ARPLANK is a highly resilient closed-cell bead foam packaging material, manufactured from EPE (expanded polyethylene).

ARPLANK is produced by steam-chest moulding, the planks have excellent properties for absorbing and dissipating energy.

ARPLANK products exhibit isotropic behaviour. This means they are perfect for the protective packaging of highly sensitive applications.

In comparison to similar products, ARPLANK is 100% recyclable and in Europe, also contains 30% recycled ARPLANK waste from our customer sites.



TRADITIONAL FOAM  
PACKAGING



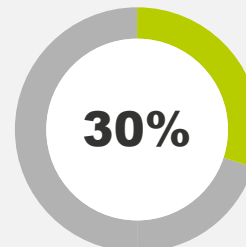
ARPLANK  
PACKAGING

## REDUCED PACKAGING VOLUME BY AT LEAST 40% WITH NO CHANGE IN PROTECTIVE PROPERTIES

Block size 2000 x 1200 x 150mm.

ARPLANK 20 and ARPLANK 30 CO are  $\geq 1950 \times \geq 1180 \times \geq 145$  mm.

### MATERIAL PROPERTIES



**30%  
RECYCLED  
CONTENT**



**100%  
RECYCLABLE**



**UP TO 40%  
MATERIAL  
SAVINGS**  
with the same  
cushioning properties



# ARPLANK **ADVANTAGES**

ARPLANK is the best material in the market for compression set and returns to nearly 100% of the original shape. This makes it suitable for reusable packaging, long-term storage packaging and overseas transport.

**REDUCTION**  
in weight and packaging  
volume by up to 40%,  
while maintaining the  
same technical properties

**OPTIMISING  
YOUR CO<sub>2</sub>  
BALANCE**

ARPLANK planks bring increased efficiency and reduced scrap.



**PLANK  
SIZE**



**ENHANCED  
THICKNESS**



**HIGHLY  
RESILIENT**

Minimum order quantity is 1 pallet = 14 planks. We can supply full truck loads which is 13 or 14 pallets depending on the truck size.

## DENSITY OPTIONS

**20**  
kg/m<sup>3</sup>

**30**  
kg/m<sup>3</sup>

**45**  
kg/m<sup>3</sup>



The planks are available  
in densities: **20, 30 and  
45kg/m<sup>3</sup>**.

### Density comparisons kg/m<sup>3</sup>

EXTRUDED PE	35	60	80
XPE	30	45	65
<b>ARPLANK</b>	<b>20</b>	<b>30</b>	<b>45</b>

# ARPLANK **PROPERTIES**

ARPLANK is an energy absorbing cushioning material for products requiring shock absorption, vibration dampening, insulation and chemical resistance.

This versatility makes it ideal for protective packaging applications. It is a low abrasive material giving surface protection for sensitive goods.



## **DENSITY OPTIMISATION**

Up to 40% lighter in comparison to conventional cross-linked foams.



## **ISOTROPIC BLOCKS**

Packaging delivers the same impact performance from all 3 axes, guaranteeing the highest level of protection.



## **CHEMICALLY INERT**

Free from any hazardous chemicals. Water and oil resistant.



## **HIGH SHOCK ABSORPTION**

Excellent shock absorption and repeated impact resistance.



## **WIDE TEMPERATURE RANGE**

High temperature range from -60 to 100°C.



## **100% RECYCLABLE**

In Europe, ARPLANK is manufactured with 30% recycled content and is 100% recyclable.



## ARPLANK 30 CO

ARPLANK 30 CO, conductive provides reduced electrical surface resistivity, it is ideal for the protection of electro-sensitive goods. The specified surface resistance is guaranteed for more than 5 years.

ARPLANK 30 CO is used for packaging materials in the electronics, automotive, solar and photovoltaics industries. It protects sensitive electronic equipment and other products that need protecting from electro-static charges.



**ARPLANK 30 CO has a permanent surface resistance of  $\leq 10^5 \Omega$  (Ohm).**

# EU DIRECTIVES AND REGULATIONS

ARPLANK can help you to respect EU Directives and Regulations for packaging materials.

## EU STRATEGY FOR PLASTICS IN A CIRCULAR ECONOMY

All plastic packaging in the EU is either reusable or can be recycled in a cost-effective manner by 2030.

## PROPOSAL OF PACKAGING AND PACKAGING WASTE REGULATION

Plastic packaging will contain a certain minimum amount of recycled content recovered from post-consumer plastic waste. In the 'Other packaging' category recycled content will be a minimum of 35% from 2030 and 65% from 2040.

## PROPOSAL OF PACKAGING AND PACKAGING WASTE REGULATION

50% of plastics will be recycled by 2025 and 55% by 2030.



# SUSTAINABILITY

ARPLANK is expanded polyethylene. It is 100% recyclable material with a first-class environmental performance enabling it to meet sustainability targets.

ARPLANK produced in Europe consists of 30% recycled content sourced from post-consumer PE waste or recycled ARPLANK waste from our customer sites. A dedicated supply of high quality recycled material is vital to ensure material streams for ARPLANK production.

## REDUCE

Switching to ARPLANK can reduce packaging weight vs other PE foams by up to **40%** whilst maintaining static and dynamic performance.

This creates savings in material volume, transport costs and overall environmental impact.

## REUSE

ARPLANK is perfectly suited to reusable and returnable packaging applications over a long lifetime.

## RECYCLE

ARPLANK is 100% recyclable and when produced in Europe consists of 30% recycled ARPLANK waste from our customer sites.

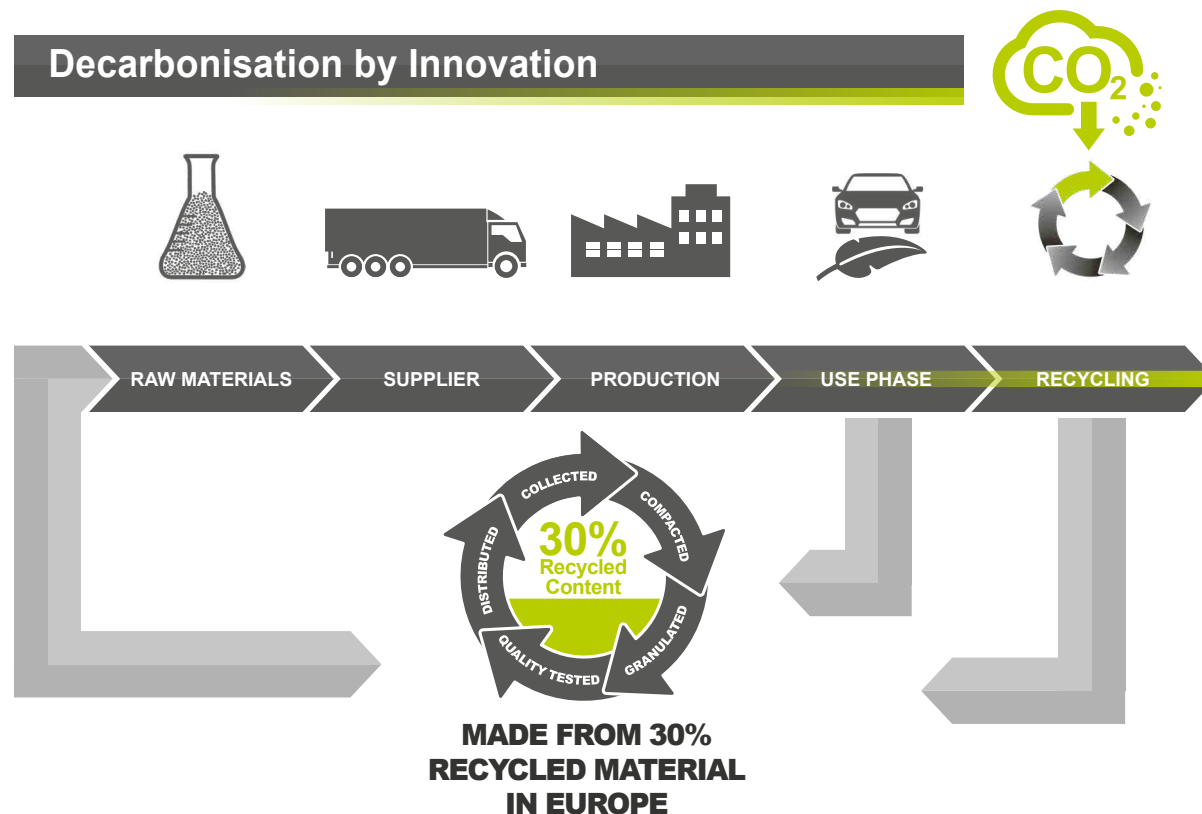


LDPE



100%  
RECYCLABLE

## Decarbonisation by Innovation



ARPLANK produced in Europe consists of 30% recycled content sourced from post-consumer PE waste or recycled ARPLANK waste from our customer sites. A dedicated supply of quality recycled material is vital to ensure material streams for future ARPLANK production. The post-consumer PE waste is compacted and crushed into ingots and then extruded. The recyclate is used to produce new ARPLANK at a minimum percentage of 30%. The process enables our customers to take advantage of an entirely closed-loop solution and work towards their own sustainability goals.





*“ For us, ARPLANK is the foam material of the future. Not only do we use it to reduce volume of packaging, but the material also fits perfectly into our ReFOAM sustainability strategy. Furthermore, it can be processed excellently through all process flows. ”*

**Lara Breitkreuz**  
Wetropa Marketing

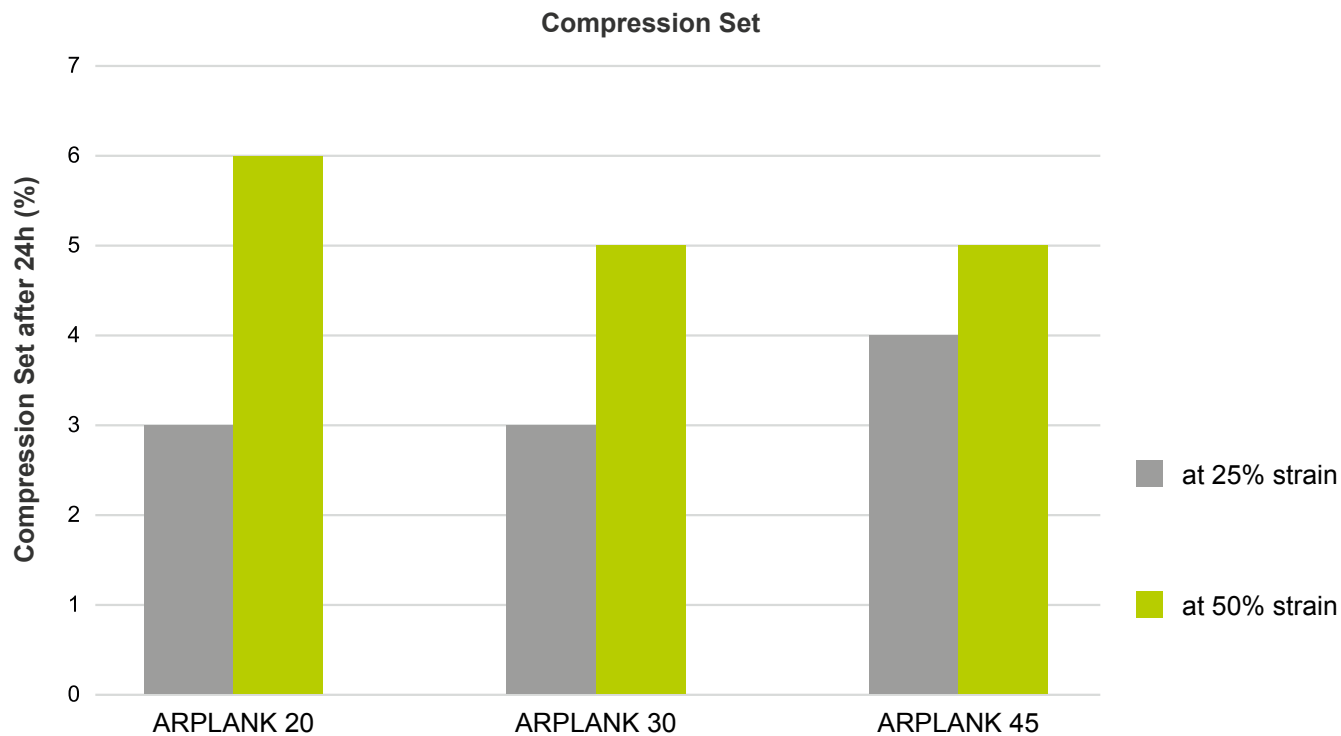


# ARPLANK **COMPRESSION SET**

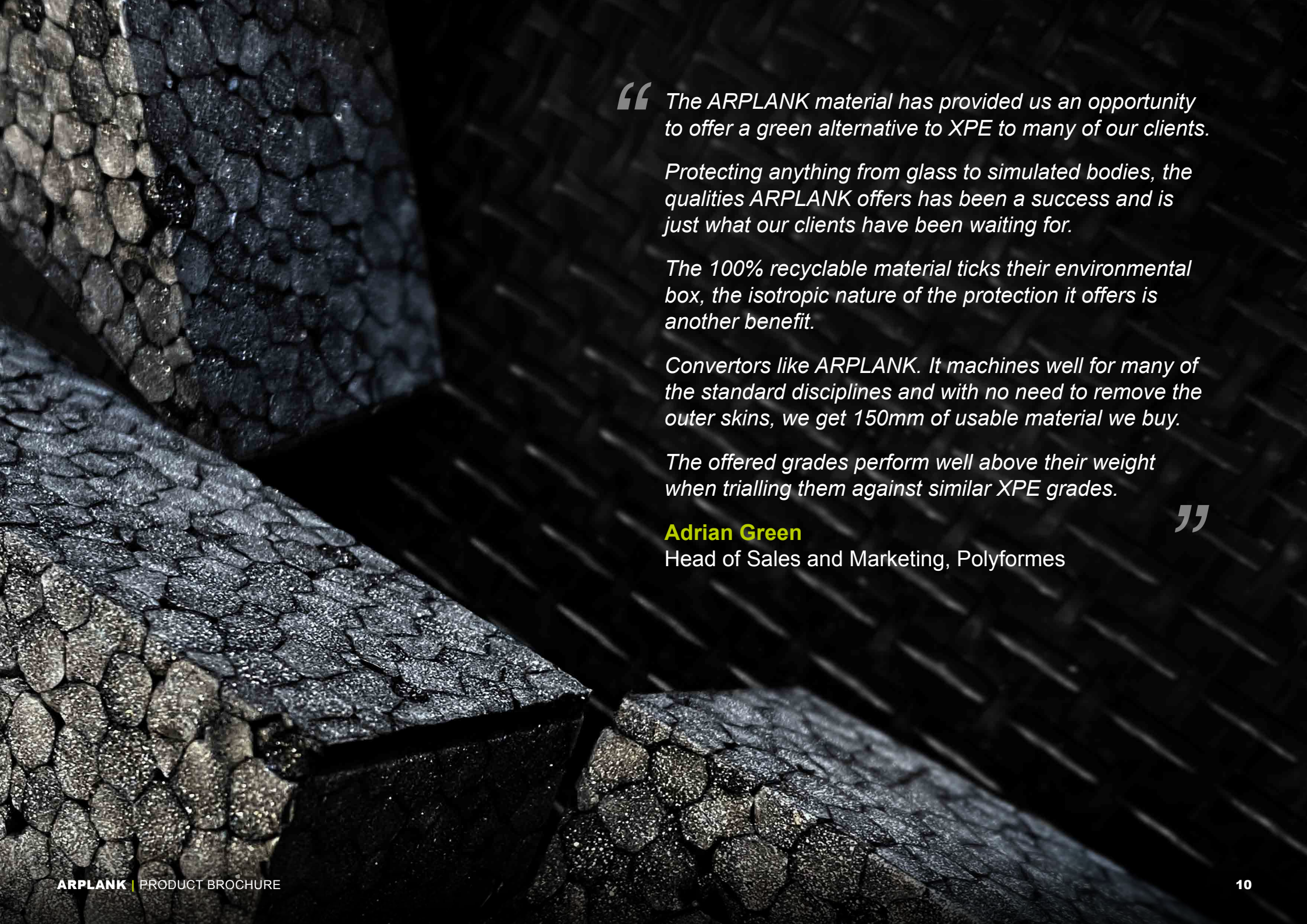
ARPLANK Blocks have very low compression set values of 5% - 6% allowing ARPLANK to return to nearly 100% of its original shape making it the best in class material.



## COMPRESSION SET IN % **THE LOWER THE BETTER**







“ The ARPLANK material has provided us an opportunity to offer a green alternative to XPE to many of our clients.

*Protecting anything from glass to simulated bodies, the qualities ARPLANK offers has been a success and is just what our clients have been waiting for.*

*The 100% recyclable material ticks their environmental box, the isotropic nature of the protection it offers is another benefit.*

*Convertors like ARPLANK. It machines well for many of the standard disciplines and with no need to remove the outer skins, we get 150mm of usable material we buy.*

*The offered grades perform well above their weight when trialling them against similar XPE grades.*

**Adrian Green**

Head of Sales and Marketing, Polyformes

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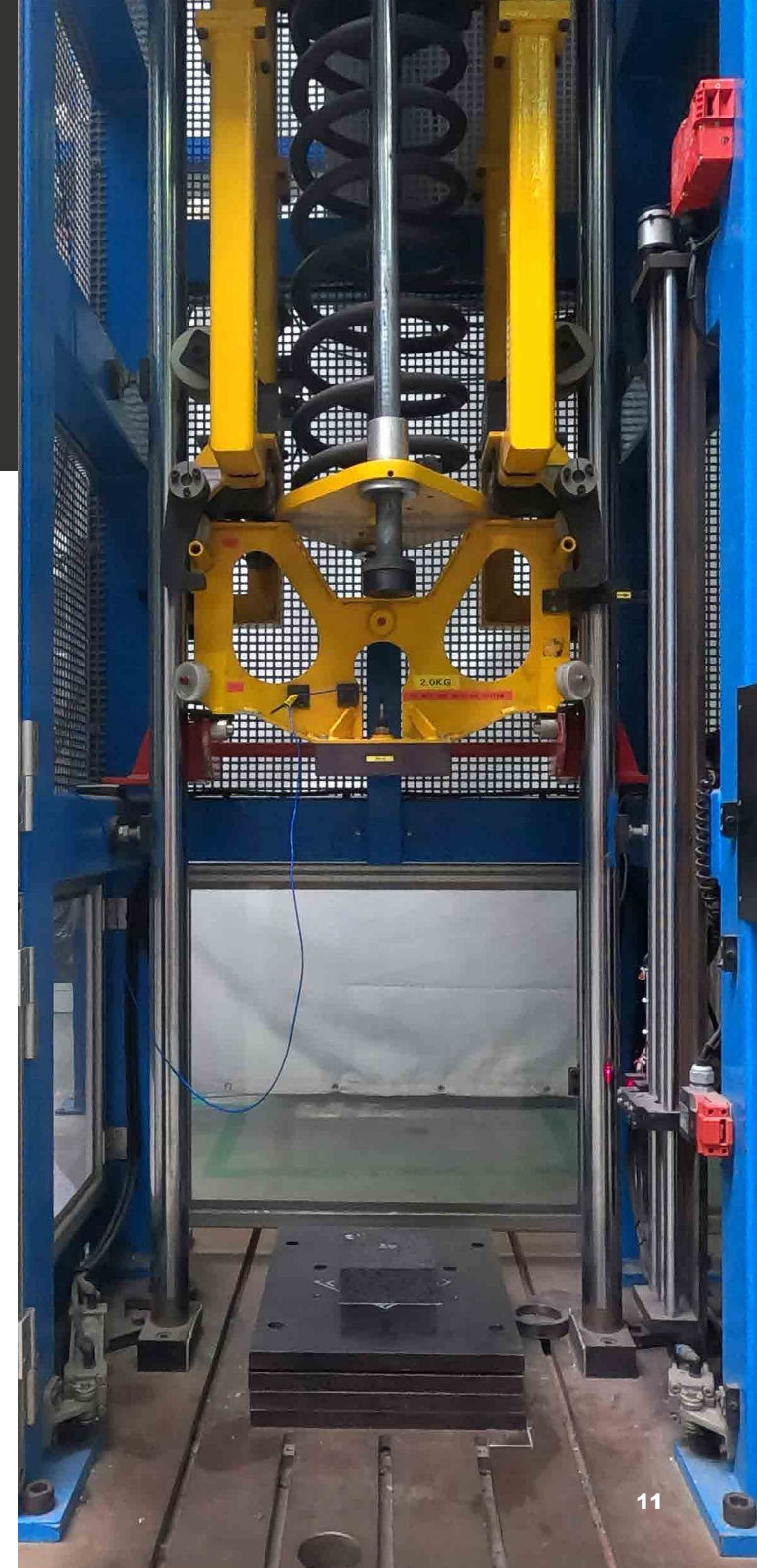
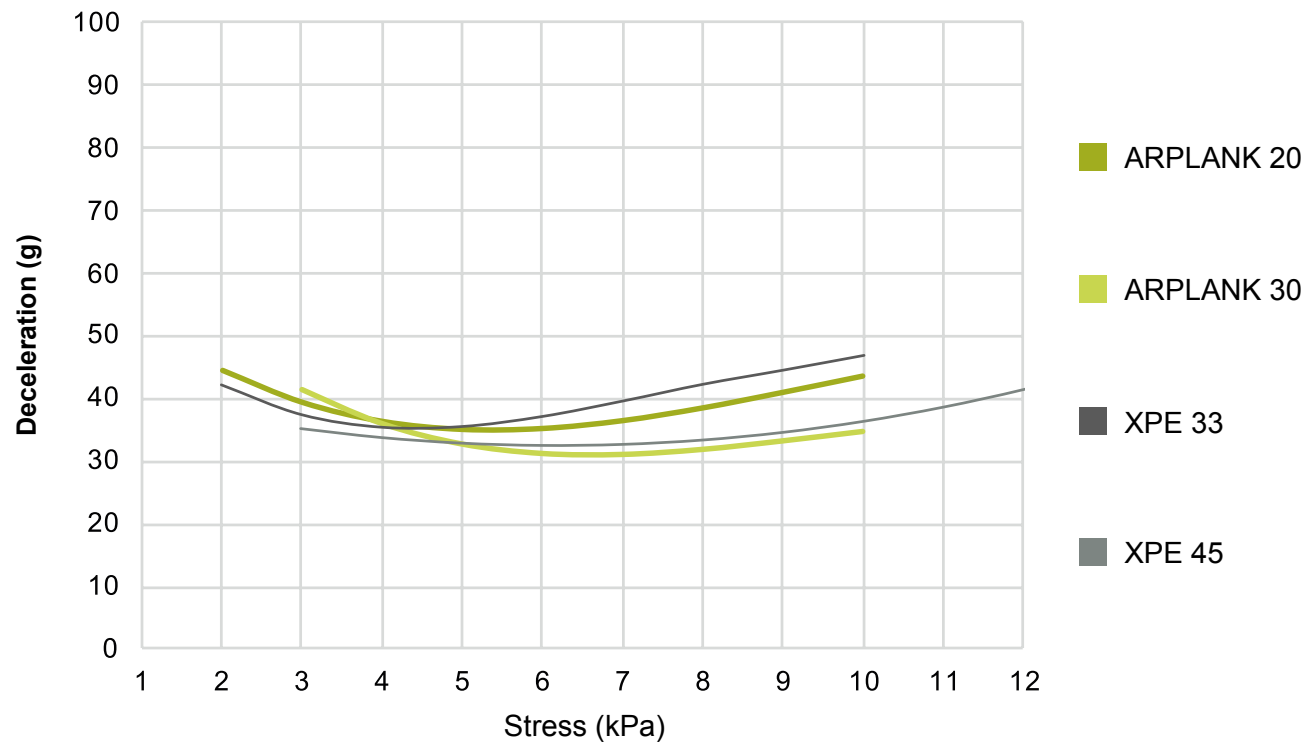


# ARPLANK CUSHIONING TEST

Due to its density properties, ARPLANK can protect heavier fragile items using less packaging material.

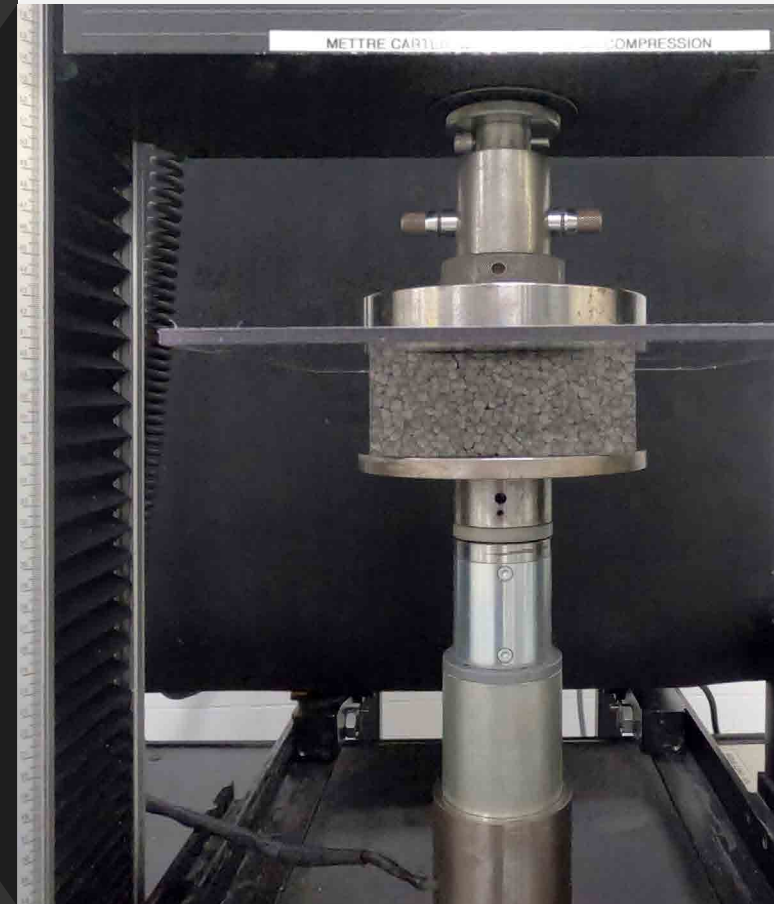
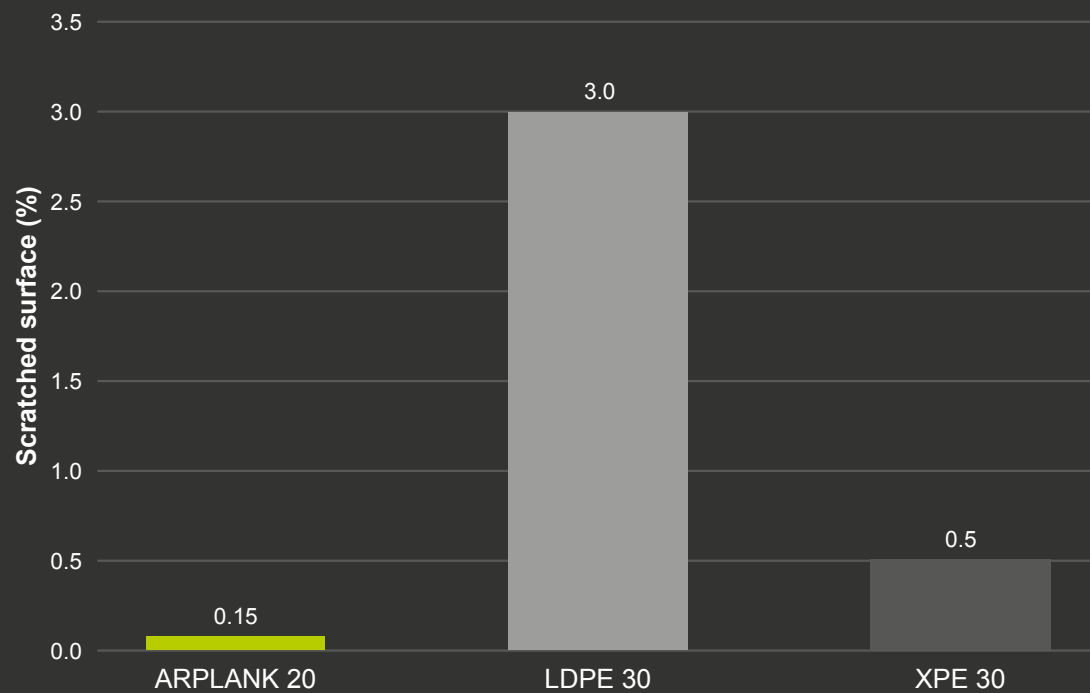


1st drop - drop height of 600mm on blocks 50mm thick



# ARPLANK **LOW ABRASION**

ARPLANK is a low abrasive material, it protects scratch sensitive surfaces. The fabricated surface is very smooth and offers a high level of protection for extremely sensitive products.





# ARPLANK APPLICATIONS



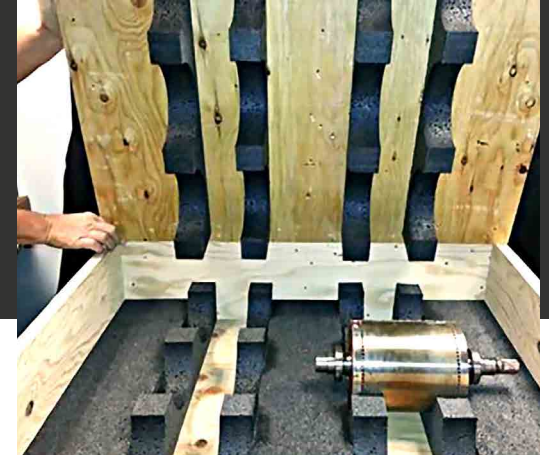
WINDSCREEN PROTECTION



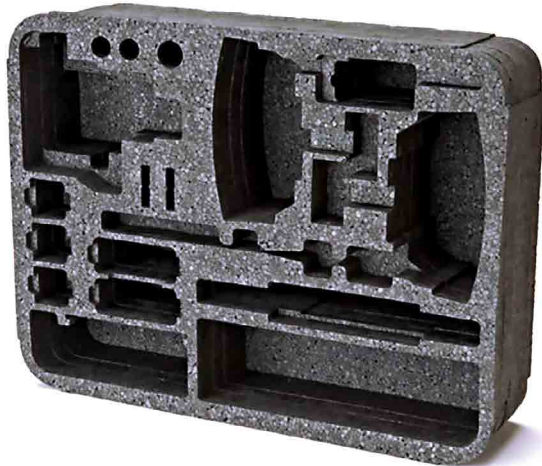
EV BATTERY CRATING



ELECTRONIC VALVE



TESLA ROTORS - DAMPENING, BLOCKING



PACKAGING



SHIPPING CRATE - LARGE  
ELECTRONIC SERVER



MEDICAL DEVICE PROTECTION



COMPUTER CHIP PACKAGING

# ARPLANK **HIGHLIGHTS**

**100% RECYCLABLE**

**MADE FROM 30% RECYCLED CONTENT IN EUROPE**

**ENERGY ABSORBING CUSHIONING MATERIAL**

**WITHSTANDS MULTIPLE IMPACTS WITHOUT DAMAGE**

**LIGHTWEIGHT**

**NON-ABRASIVE**

**WIDE TEMPERATURE RANGE**

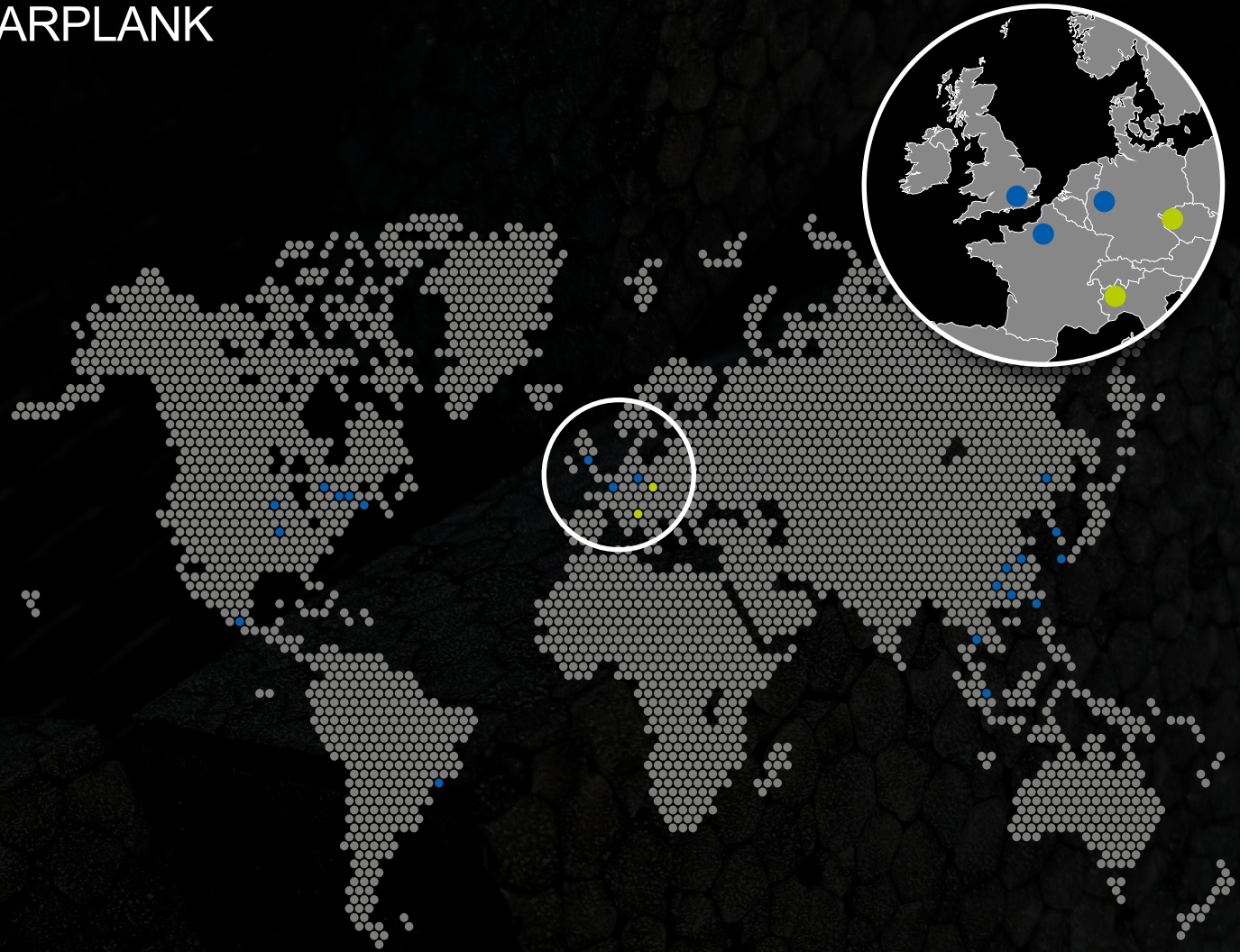




# THE COMPANY BEHIND ARPLANK

JSP was established in Japan in 1962. The company has manufacturing facilities in major industrial centers in America, Europe and Asia.

The goal of the company is to WOW customers with innovative products and technologies to offer customers continuous high levels of customer service. There is a focus on sustainability and innovation; to reduce energy consumption and waste materials and the overall environmental impact.



## ARPLANK DISTRIBUTION SITES

● **JSP Cheb**  
Průmyslový park 11/158  
350 02 Cheb,  
Czech Republic

● **IlTar**  
JSP  
Turin area  
Italy

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40233 Düsseldorf  
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