

PRODUCT ANNOUNCMENT



2 NEW &



100% RECYCLABLE FOAM **PACKAGING OPTION**



Peregrine are proud to announce a major step forward in achieving their target of an overall circular economy for their foam product range, with the introduction of a brand new 25% recycled & 100% recyclable foam!

For years, bespoke foam protection solutions for high valued components have predominantly relied on non-recycled single use foams.

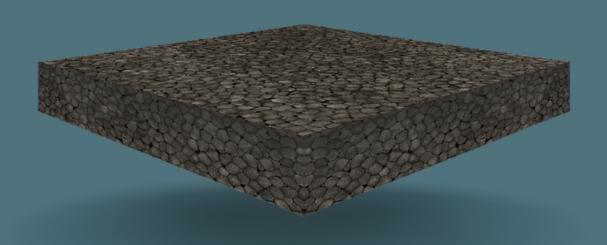
Following the successful completion of a Pit Lane Sustainability Project with a major F1 Team, where Peregrine were challenged to find a recyclable replacement for the current single use foams. Peregrine are now pleased to announce that they able offer a 100% recyclable foam option into the market place.

This not only gives our customers a route to a circular economy, for the packaging and protection of their component solutions. But, the new foam, unlike traditional foams which yield different protection properties along each axes, the new recyclable foam is the same regardless of orientation, thus, making it an ideal and versatile product for all protective packaging applications.

NEW

NEW MATERIAL

Recyclable Foam (PCR)





NEW

PCR FOAM



25% PCR Foam Material



Part Recycled Foam Material

PCR FOAM contains 25% PCR (post-consumer recycled) polyethylene

Peregrine PCR

The 100% Recyclable, highly resilient closed-cell material, made from expanded polyethylene (EPE) bead foam. It is the ideal product for applications such as packaging and cushioning, expandable and returnable dunnage, thermal management and flotation.

Material Description:

- PCR contains 25% recycled material and, in turn, can be 100% recycled.
- Offers excellent shock absorption and repeated shock resistance.
- Its optimal density makes a volume-reduced, lighter and safer packaging option.
- Very good isothermal properties. Stable from -60 to 100 C.
- Chemically inert; free of chemicals and volatile organic compounds (VOC).
- Is an isotropic block material the same energy absorption across all three planes.



Why PCR:

PCR Foam is one of the most effective packaging materials on the market, with the ability to absorb multiple impacts as well as being sustainable and lightweight. The thermally bonded polyethylene beads create a three-dimensional performance that absorbs and dissipates energy.

This isotropic behaviour means it is multidirectional in nature.

This same performance in all 3 axes combined with its fine surface protects sensitive or painted goods and makes it an ideal product for protective packaging applications. The material is being used to make load carriers, CKD (Complete Knock Down) packaging, structural packaging, inserts and also die-cut products.



PCR FOAM





Physical Properties	Test Method	Typical Result
. Longth (mm)	ISO 1923	> 1 900
• Length (mm)		≥1,800 > 1,200
• Width (mm)	ISO 1923	≥1,200
• Thickness (mm)	ISO 1923	≥150
Density (kg/m2)	ISO 845	45
Compressive Strength:		
25% strain (kPa)	ISO 7214	120
50% strain (kPa)	ISO 7214	200
 Tensile Strength (kPa) 	ISO 7214	550
 Tensile Elongation 	ISO 7214	60
Compression Set:		
Stabilising 30min (%)	ISO 7214	14
Stabilising 24h (%)	25% - 22h loading	4
 Tear Strength (N/cm) 	ISO 8067-B	40
 Hardness Shore 00 	ISO 868	72
 Water Absorption 	DIN 53428	<1
Thermal Conductivity (W/(m.K)):		
 Test Temperature 10c 	ISO 8301	0.042
 Test Temperature 23c 	ISO 8301	0.043
 Service Temperature (C) 	Internal	100
 Flammability 	FMVSS302	PASS



This information is provided as a convenience to customers and reflects the results of external tests conducted on PCR samples. While all reasonable care has been taken to ensure that this information is accurate as of the date of issue, Peregrine MLS does not represent, warrant or otherwise guarantee, expressly or impliedly, the suitability, reliability or completeness of the information.





Kitting & Logistic Packaging Foam

PACKAGING FOAMS

Peregrine have the manufacturing ability & experience to design and manufacture of complex and bespoke foam packaging with a range of cellular foam materials with a vast range of colours available.

As a highly experienced CNC manufacturing company, we are driven by specifications and job requirements, allowing us to design for the overall packaging solution

Our range of foam is used to give protection to fragile and expensive items because of its ability to absorb and recover from repeated shocks. Lightweight and clean, it's the best choice for product protection.





Contoured Air Inlet Blockers



AIR INLET BLOCKERS

Peregrine MLS provides contoured foam air intake blockers tailored to your vehicles dimensions, ensuring vehicle air intake systems are kept clean and dry when not in use.



The air intake blockers are manufactured using our high precision CNC machines, with a full range of materials & colours available. They can fit your vehicle exactly and can be removed with ease, Peregrine can also work with you on the design & custom engraving on the face of the blockers to really give you that bespoke professional appearance.





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