

ATLASFOAM® RCYAtlas HPE



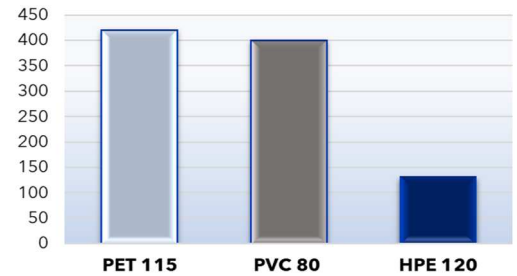
Beyond the state of the art: innovative formulation expressing excellent mechanical, chemical, thermal and technological properties, **RCYAtlas HPE** is an engineered core material optimized to best satisfy industrial processing needs, applications requirements, environmental impact target for sandwich composite structures.

In addition to lightweight and mechanical performance, **RCYAtlas HPE** offers:

PERFECT ADHESION-COHESION
SKIN-CORE
WITHOUT RESIN EXCESS

Resin uptake g/m² foam (side), plain sheet

- Resin saving 70% vs PETs & PVCs
- Lower sandwich final weight
- Improved sandwich ultimate properties



RECYCLABLE
AND
RECYCLED

RcyAtlas HPE 120, together with RcyAtlas F 60, is a 100% recyclable foam which is produced with a content of 30 to 50% of raw materials coming from recycling process starting from waste of internal production or from customers' waste.

Main applications are the following ones: wind turbine blades, structural/ semi-structural/interior elements in yachts and ships, train body shell and interior elements, special vehicles, containers, sporting goods.



TECHNICAL PROPERTIES DATA - CUSTOMIZATION POSSIBLE UPON REQUEST

Atlas HPE is an **isotropic material**; mechanical properties, including shear strength and modulus, are independent from sheet direction. **Constancy of RCYAtlas HPE mechanical properties** are guaranteed by our innovative process and proved by routine testing at single production batch level; test data reported represent average production figures referring to over 10 years of product manufacturing and testing.

Property	Standard	Unit	RCY HPE 120
Density	ASTM D 1622	kg/m ³	123
			117-130
Compressive strength	ASTM D 1621	MPa	1.4
Compressive modulus	ASTM D 1621-73B	MPa	80
Tensile strength	ASTM D 1623	MPa	1.4
Tensile modulus	ASTM D 1623	MPa	75
Shear strength	ASTM C 273	MPa	1.1
Shear modulus	ASTM C 273	MPa	23
Thermal conductivity	ASTM C 518	W/mK	0.028
Service Temperature		°C	-180 +90
(*) Process Temperature		°C	130

(*) maximum 1 hour

STANDARD DIMENSIONS - CUSTOMIZATION POSSIBLE UPON REQUEST

Property	Unit	RCY HPE 120
Length	mm	2440
Width	mm	1220
Thickness	mm	5 - 300

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Contact us for further information, test data report, comparative studies, references: sales@nmgonline.it