

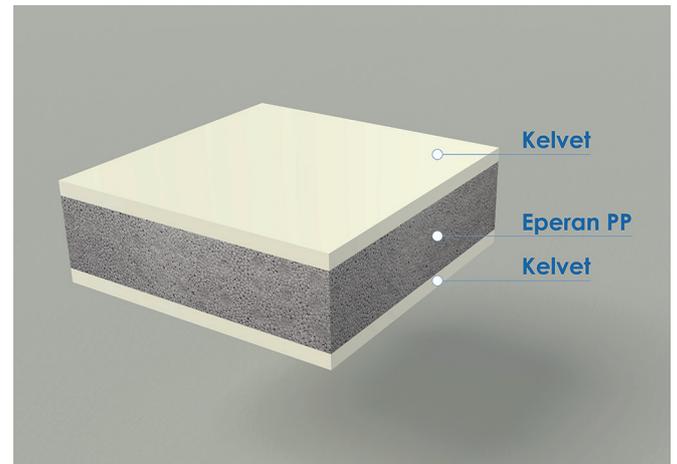
Eperan™ PP & Kelvet®

Eco-sustainable sandwich solution for lightweight applications

PRODUCT DESCRIPTION

Eperan™ and Kelvet® propose a unique combination of material features, with Eperan™ PP acting as a strong expanded polypropylene core and Kelvet® representing a versatile and easily applicable skin.

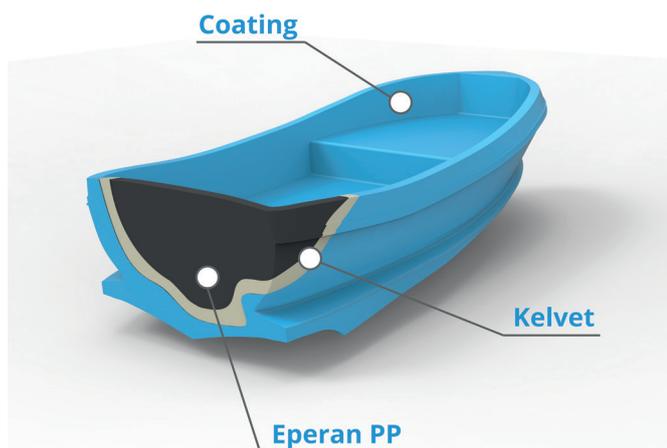
This innovative sandwich structure potentially finds applications in many structural parts where light weight and strong resistance are required.



Eperan™ PP and Kelvet® sandwich structure for lightweight applications

MATERIAL PROPERTIES

The combination of Eperan™ PP with Kelvet® allows to obtain highly important properties for the final sandwich material, such as strength, light weight, 3D-processing, compatibility, insert & accessories, reinforcements, acoustic & thermal insulation, aesthetic value, recyclable and sustainable characteristics.



Section image of a prototype fully made from Eperan™ PP and Kelvet®



Designed and engineered by SurfCrest. www.surfcrest.eu

TYPICAL PROPERTIES EPERAN™ - KELVET®

➔ TEST TYPE EPERAN 30 - KELVET SANDWICH [3 MM SKIN]

Compression stress	ABS/RINA/BV/LR	ASTM C 364 ASTM D 695 ISO 844/2007	KPa 20.000
Tensile	ABS/RINA/LR/BV	ASTM D 638 ISO 1926/2009	KPa 14.000
Flexural	ABS/RINA/LR/BV	ASTM D 790	KPa 20.000
Thermal Conductivity	ABS/RINA/LR/BV	EN 12667/2001 UNI EN 13165	0,028 W/mK
Water absorption	ABS/RINA/LR/BV	ISO 2896/2001 EN 1609 metodo B - prEN 14315-1- 4.3.3 - prEN 14318 -1-4.2.4	Vol % ≤ 3,5

EPERAN 30 - KELVET CD SANDWICH [3 mm skin]
With addition of colouring according to project needs.



EPERAN - KELVET R
Reinforced with polypropylene fibre, carbon fibre to increase the mechanical strength according to project needs.

Disclaimer

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