

REDEFINING YOUR BUILDING EXPERIENCE

ArmaPET[®] LightPly

Designed to meet the demands of modern construction, Armacell is introducing ArmaPET LightPly, a lightweight alternative to plywood that combines strength and sustainability:

- // Made from 100% recycled PET and fully recyclable
- // Strong yet significantly lighter
- // Resistant to moisture, enhancing durability
- // Offers superior thermal performance for various applications

www.armacell.com/armapet



 **armacell[®]**
ArmaPET[®]

ARMAPET LIGHTPLY

Crafted from 100% recycled PET,
ArmaPET LightPly is not only lightweight
but also remarkably durable!



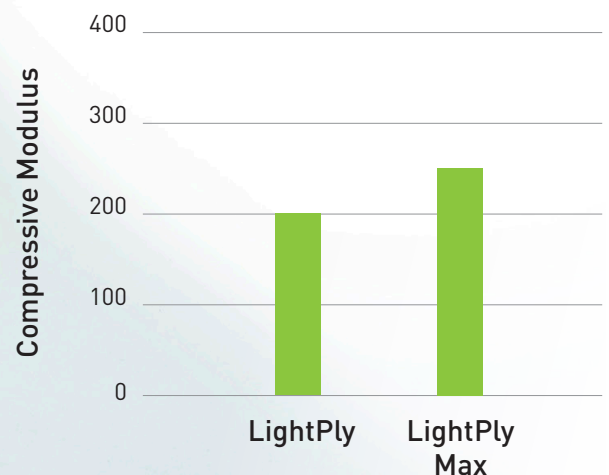
MOISTURE
RESISTANT

-60%
WEIGHT

ArmaPET LightPly is designed to meet the evolving demands of the plywood industry, showcasing a refined blend of features that cater to the lightweighting trend. This innovative material achieves a **remarkable weight reduction of 50 to 60% compared to traditional plywood**, while still providing the **necessary strength** for a variety of applications.

In today's challenging environment, ArmaPET LightPly delivers an **exceptional experience** that sets it apart in the market.

- // Enhanced strength-to-weight ratio
- // Exceptional environmental and thermal performance, reducing CO₂ emissions from operations
- // Improved screw fastening capabilities
- // Consistent properties with versatile conversion options
- // No swelling or degradation, leading to greater durability



Technical Data

Preliminary Nominal Values ⁽¹⁾

TYPE	STANDARD	UNIT	LIGHTPLY	LIGHTPLY MAX
Density average	ISO 845	kg/m ³	190 ⁽²⁾	240 ⁽²⁾
		lb/ft ³	11.7 ⁽²⁾	15.0 ⁽²⁾
Compression Strength	ISO 844	MPa	3.6	4.8
		psi	522	696
Compression Modulus	ISO 844	MPa	190	240
		psi	27560	34810
Shear Modulus ⁽³⁾	ISO 1922	MPa	60	70
		psi	8702	10153
Thermal Conductivity ⁽⁴⁾	at 23 °C	W/(m·K)	0.043	0.047
	at 73.4 °F	BTU.in /FT ² .hr.°F	0.298	0.326

Reaction to fire ⁽⁵⁾	EN 13501-1	Class	E	E
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	Thickness		LIGHTPLY	LIGHTPLY MAX
Board Weights	9 mm 0.35 inch	kg	5.1	6.4
		lb	11.2	14.1
	12 mm 0.47 inch	kg	6.8	8.6
		lb	15	18.9
	15 mm 0.59 inch	kg	8.4	10.7
		lb	18.5	23.6
	18 mm 0.71 inch	kg	10.2	12.8
		lb	22.5	28.2
	21 mm 0.83 inch	kg	11.9	15
		lb	26.2	33.1
	25 mm 0.98 inch	kg	14.1	17.9
		lb	30.9	39.5

	Length		Width	Diagonal	Thickness
Board Dimensions	mm	2440	1220 ⁽⁶⁾	Depending on length & width combination	9 - 25
	inch	96.06	48.03 ⁽⁶⁾	Depending on length & width combination	0.3 - 1
Tolerances at room temperature	mm	+/- 5	+/- 5	≤ 4	+/- 0.5
	inch	+/- 0.2	+/- 0.2	≤ 0.16	+/- 0.02



- (1) Preliminary data (indication based on a limited number of tests)
 (2) Tolerances: -15/+30 kg/m³, -0.9/+1.9 lb/ft³
 (3) // direction (parallel to the weld)
 (4) Indicative values.
 (5) Tested according to EN ISO 11925-2 at a thickness of 25 mm / 0.98 inch. Further information available on request.
 (6) Available on request.

Further information available on request.
 All values are average production figures.
 Our products are CFC / HFC free.
 Only halogen-free flame retarded additives.
 Physical properties are not affected by variances in colour. Customs tariff code: 39.21.19.00

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.

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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 insulation solutions that create sustainable value for its customers. Armacell's products significantly contribute to driving energy efficiency worldwide. With more than 3,300 employees and 26 production plants in 20 countries, Armacell 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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