

NEXT GENERATION

ArmaPET[®] Struct GRX

To take its patented rPET foaming technology to the next level, Armacell is introducing ArmaPET Struct GRX:

- // Optimised resin uptake improves the sandwich panel's weight and level of cost
- // Excellent thermal and dimensional stability facilitates repeatability in production
- // Outstanding fatigue resistance bolsters long-term performance and low lifetime maintenance
- // 100% recycled material supports industry environmental and sustainability directives

www.armacell-core-foams.com



 **armacell**[®]
ArmaPET[®]

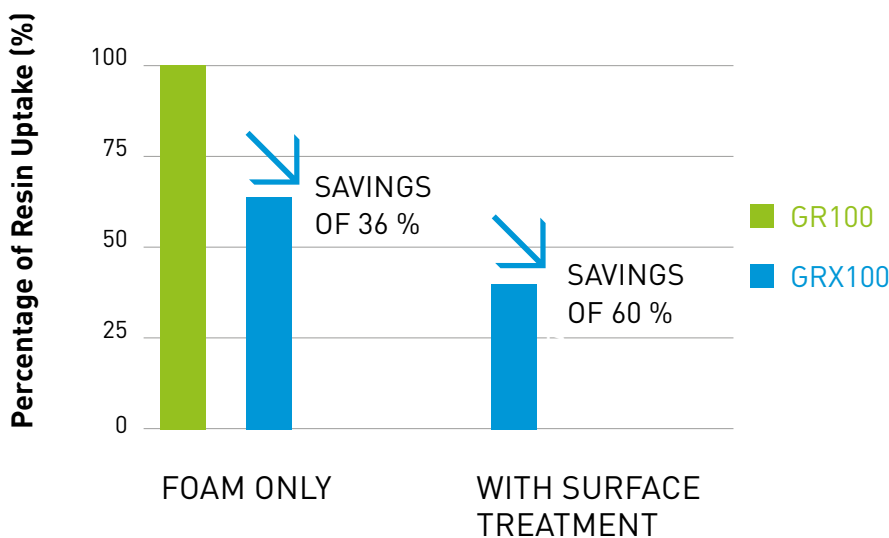
NEXT GENERATION

ARMAPET STRUCT GRX

We take ArmaPET Struct to the next level, making 100% recycled PET foam core more efficient!

We strive for continuous improvement of our product solutions – based on our customers' needs. Today, we present ArmaPET Struct GRX range which features a more **homogenous and finer cell structure** in combination with **improved shear properties**. This new generation of structural foam core provides significant savings in resin uptake to further optimise weight and cost savings.

RESIN UPTAKE PERFORMANCE OF ARMAPET STRUCT GR100 VS. GRX100 *



ArmaPET Struct GRX will be supplied with surface treatment as the default procedure if not agreed upon differently.

* Measured as per Armacell internal test method.

Benefit from the new ArmaPET Struct GRX experience:

- // Homogenous and finer cell structure
- // Limited resin uptake
- // Weight savings of the final sandwich structure
- // Improved shear performance

Technical Data

Preliminary Nominal Values

TYPE	STANDARD	UNIT	GRX70	GRX85	GRX100	GRX115	GRX150	GRX200	GRX250
Density, average ⁽¹⁾	ISO 845	kg/m ³	70	85	100	115	150	200	250
Compression Strength	ISO 844	MPa	0.75	1.3	1.5	1.9	2.7	4	5.3
Compression Modulus	ISO 844	MPa	110	180	220	300	360	450	600
Tensile Strength	ASTM C 297	MPa	1.6	2	2.5	2.9	3.2	3.7	4.4
Tensile Modulus	ASTM C 297	MPa	60	80	120	140	185	245	300
Shear Strength ⁽²⁾	ISO 1922	MPa	0.5	0.65	0.8	1	1.45	2	2.3
Shear Modulus ⁽²⁾	ISO 1922	MPa	14	18	23	30	43	67	80
Shear Elongation ⁽²⁾	ISO 1922	%	15	15	12	10	8	6	4

BOARD DIMENSIONS ⁽³⁾

Length

2448 mm +/- 5 mm
96.68 inch +/- 0.2 inch

Width

1008 mm +/- 5 mm
1220 mm +/- 5 mm
39.68 inch +/- 0.2 inch
48.03 inch +/- 0.2 inch

Thickness

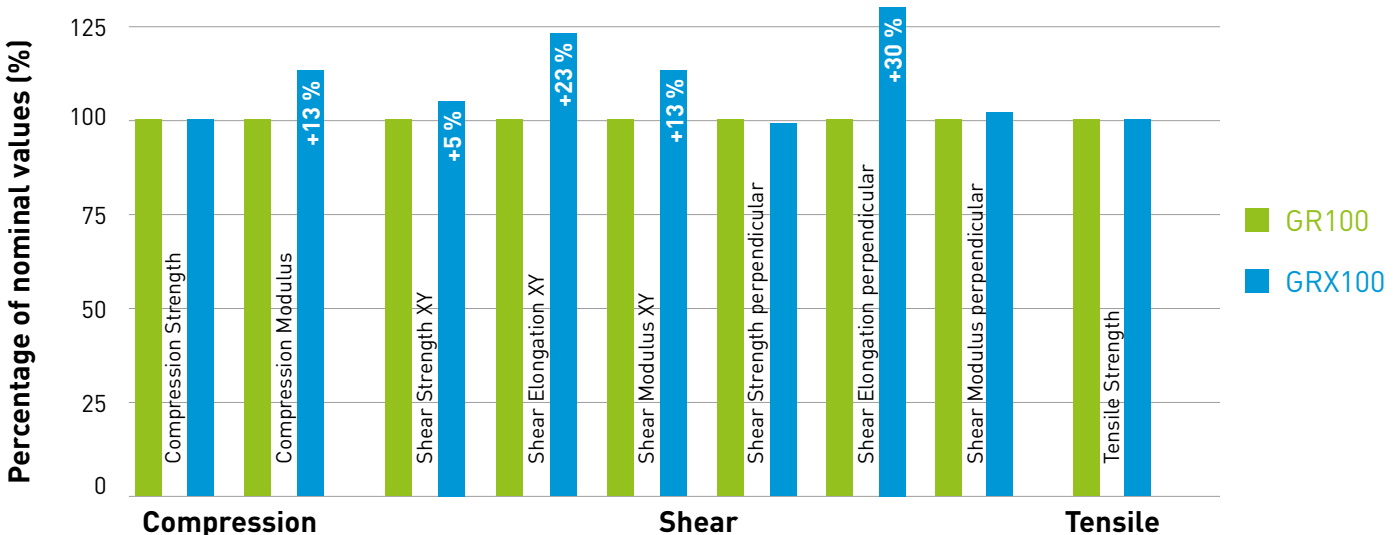
5 - 150 mm
≤ 100 mm: +/- 0.5
≥ 100 mm: +/- 1
0.2 - 5.91 inch
≤ 3.94 inch: +/- 0.02
≥ 3.94 inch: +/- 0.04

(1) Tolerances: +/- 5 kg/m³, +/- 0.3 lb/ft³
(2) // direction (parallel to the weld)
(3) At room temperature.

All values are average production figures. GRX will be provided with surface treatment as per standard. Surface treatment is not available for panels below 10mm. Minimum values on request. 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

Testing has proven that ArmaPET Struct GRX has comparable or even better **mechanical performance** compared to the current grade. Especially in **shear properties**, adjusted foam recipe provides an increase of **up to 30%**:

MECHANICAL PROPERTIES OF ARMAPET STRUCT GR100 VS. GRX100



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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 solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 25 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams, and generated net sales of EUR 806 million and an adjusted EBITDA of EUR 121 million in 2022. 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

For product information, please visit:
www.armacell.com/about-armapet

