



ArmaPET® Struct GRX85

To take its patented rPET foaming technology to the next level, Armacell is introducing ArmaPET Struct GRX85:

- // 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 longterm performance and low lifetime maintenance
- // 100% recycled material supports industry environmental and sustainability directives

www.armacell.com/about-armapet











NEXT GENERATION

ARMAPET STRUCT GRX85

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

-60%

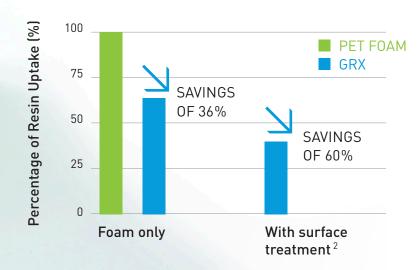
ArmaPET Struct GRX85 will be supplied with surface treatment as the default procedure if not agreed upon differently.

We strive for continuous improvement of our product solutions – based on our customers' needs.

ArmaPET Struct GRX range features a more homogenous and finer cell structure in combination with improved shear properties. This next generation of structural foam core provides significant savings in resin uptake to further optimise weight and cost savings. Up to 60 % savings are expected when comparing to previous generations without surface treatment.

- // Homogenuous and finer cell structure
- // Limited resin uptake
- // Weight savings of the final sandwich structure
- // Improved shear performance
- // Superior environmental performance compared to other PET-based insulating foams on the market

RESIN UPTAKE PERFORMANCE OF **PET FOAM**VS. **ARMAPET STRUCT GRX**¹



Measured as per Armacell internal test method, tested in foam only. Resin uptake savings will be dependent on density (graph made with GRX100).

² Supplied with surface treatment as the default procedure if not agreed upon differently.

Technical Data

Preliminary Nominal Values [1]

TYPE	STANDARD UNIT		GRX85
Density average	ISO 845	kg/m³	85 ⁽³⁾
		lb/ft³	5.0 (3)
Compression Strength	ISO 844	MPa	1.3
		psi	189
Compression Modulus	ISO 844	MPa	110
		psi	15950
Tensile Strength	ASTM C 297	MPa	2.0
		psi	290
Tensile Modulus	ASTM C 297	MPa	80
		psi	11600
Shear Strength (5)	ISO 1922	MPa	0.65
		psi	94
Shear Modulus ⁽⁵⁾	ISO 1922	MPa	18
		psi	2610
Shear Elongation (5)	ISO 1922	%	14
Thermal Conductivity	at 23 °C	W/(m·K)	0.032
	at 73.4 °F	BTU.in /FT².hr.°F	0.222
Reaction to fire ⁽⁶⁾	EN 13501-1	Class	Е



		Length	Width	Diagonal	Thickness
Board Dimensions	mm	2448	1008 1220 ⁽⁷⁾	Depending on length & width combination	5 - 150 (8)
	inch	96.68	39.68 48.03 ⁽⁷⁾	Depending on length & width combination	0.2 - 5.91
Tolerances at room temperature	mm	+/- 5	+/- 5	≤ 4	< 100 mm: +/- 0.5 ≥ 100 mm: +/- 1
	inch	+/- 0.2	+/- 0.2	≤ 0.16	< 3.94: +/- 0.02 ≥ 3.94: +/- 0.04

- (1) Preliminary data (indication based on a limited number of tests)
- (2) Tolerances: -5/+8 kg/m³, -0.3/+0.5 lb/ft³
- (3) Tolerances: +/- 5 kg/m³, +/- 0.3 lb/ft³
- (4) Tolerances: +/- 5 %
- (5) // direction (parallel to the weld)
- (6) Tested according to EN ISO 11925-2 at a thickness of 25 mm / 0.98 inch. Further information available on request.
- (7) Available on request.

Further information available on request. All values are average production figures. Surface treatment is not available for panels below 10 mm. 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

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.

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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. 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

