TECHNICAL DATA

ArmaPET® Struct

nominal and minimum values

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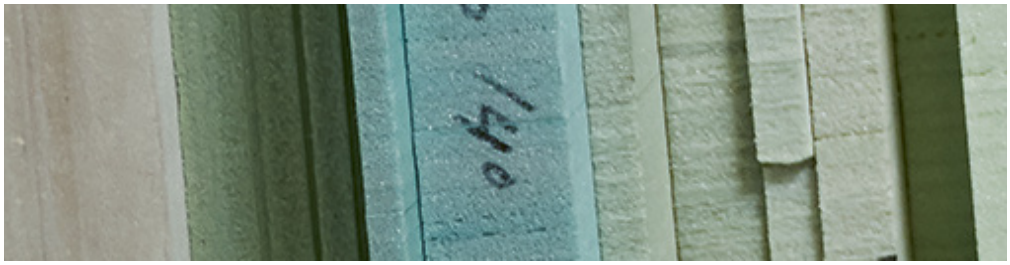

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ArmaPET®

Technical Data

ArmaPET Struct GR

			GR70		GR80		GR100		GR115	
			Minimum	Nominal	Minimum	Nominal	Minimum	Nominal	Minimum	Nominal
Density	**ISO 845**	kg/m³	65	70 [1]	75	80 [2]	95	100 [2]	110	115 [2]
		lb/ft³	4.1	4.4 [1]	4.7	5.0 [2]	5.9	6.2 [2]	6.9	7.2 [2]
Compression Strength	**ISO 844**	MPa	0.5	0.75	0.8	1.0	1.25	1.5	1.6	1.8
		psi	75	110	115	145	180	220	230	260
Compression Modulus	**ISO 844**	MPa	70	110	80	130	90	160	100	175
		psi	10'155	15'955	11'605	18'855	13'055	23'205	14'505	25'380
Shear Strength [4]	**ISO 1922**	MPa	0.45	0.5	0.53	0.6	0.7	0.75	0.8	0.95
		psi	65	75	75	85	100	110	115	140
Shear Modulus [4]	**ISO 1922**	MPa	11	13	12	16	18	21	22	26
		psi	1'595	1'885	1'740	2'320	2'175	3'045	3'190	3'770
Shear Strain [4]	**ISO 1922**	%	6	15	6	13	5	10	5	10
		%	6	15	6	13	5	10	5	10
Tensile Strength	**ASTM C 297**	MPa	1.4	1.8	1.6	2.0	2.0	2.5	2.2	2.9
		psi	205	260	230	290	290	365	320	420
Tensile Modulus	**ASTM C 297**	MPa	50	66	50	80	80	120	105	140
		psi	7'250	9'570	7'250	11'600	11'600	17'400	15'225	20'300

Technical Data

ArmaPET Struct GR

			GR135		GR150		GR200		GR250	
			Minimum	Nominal	Minimum	Nominal	Minimum	Nominal	Minimum	Nominal
Density	**ISO 845**	kg/m³	130	135 [2]	142.5	150 [3]	190	200 [3]	237.5	250 [3]
		lb/ft³	8.1	8.4 [2]	8.9	9.4 [3]	11.9	12.5 [3]	14.8	15.6 [3]
Compression Strength	**ISO 844**	MPa	2.2	2.3	2.4	2.6	3.5	4.0	4.6	5.3
		psi	320	335	350	375	510	580	665	770
Compression Modulus	**ISO 844**	MPa	125	190	140	200	180	230	230	270
		psi	18'130	27'555	20'305	29'005	26'105	33'360	33'360	39'160
Shear Strength [4]	**ISO 1922**	MPa	1.0	1.2	1.2	1.35	1.4	1.75	1.7	2.0
		psi	145	175	175	195	205	255	245	290
Shear Modulus [4]	**ISO 1922**	MPa	28	35	32	37	44	51	60	70
		psi	4'060	5'075	4'640	5'365	6'380	7'395	8'700	10'150
Shear Strain [4]	**ISO 1922**	%	5	7	5	7	3	5	2	3
		%	5	7	5	7	3	5	2	3
Tensile Strength	**ASTM C 297**	MPa	2.5	3.0	2.6	3.3	3.0	3.9	3.3	4.3
		psi	365	435	375	480	435	565	480	625
Tensile Modulus	**ASTM C 297**	MPa	110	140	140	185	180	235	200	270
		psi	15'950	20'300	20'300	26'825	26'100	34'075	29'000	39'150

Tolerances		Length	Width	Diagonal	Thickness
Dimensions	mm	2448	1008 / 1220 [5]	[6]	GR70-GR250: 5-200mm [7] [8]
	inch	96.38	39.68 / 48.03 [5]	[6]	GR70-GR250: 0.2 - 7.87
At room temperature	mm	+/- 5	+/- 5	⩽ 4	⩽ 100mm: +/- 0.5 ⩾ 100mm: +/- 1
	inch	+/- 0.2	+/- 0.2	⩽ 0.16	⩽ 3.94: +/- 0.02 ⩾ 3.94: +/- 0.04

(1) Tolerances: -5/+8 kg/m³, -0.3/+0.5 lb/ft³
(2) Tolerances: +/- 5 kg/m³, +/- 0.3 lb/ft³
(3) Tolerances: +/- 5 %
(4) // direction (parallel to the weld)
(5) Available on request.
(6) Depending on length and width combination.
(7) Thickness in Suzhou plant is GR70-GR250: 5-150 mm.
(8) No half-board for thickness ⩽ 5 mm in grade GR70-GR80.

All values are average production figures.
Minimum values calculated based on ISO 16296: p=0,95 1-α=0,95
Our products are CFC / HFC free.
Physical properties are not affected by variances in colour.
Customs tariff code: 39.21.19.00

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ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic 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 3,000 employees and 23 production plants in 15 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

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