



ArmaFORM PET AC - Recyclable Structural PET Foam



- Outstanding fatigue resistance
- Easy to process and process tolerant
- High temperature resistance (withstands short-term curing temperatures of up to 180°C)
- Low resin-/water absorption
- Excellent long term thermal stability
- Low density variation (+/- 5 kg/m³)
- Recyclable
- Thermoformable
- Good FST properties

TECHNICAL DATA

ArmaFORM PET AC Polyethylene Terephthalate (Welded)

			AC 80 (W)	AC 100 (W)	AC 115 (W)	AC 135 (W)	AC 150 (W)	AC 200 (W) <i>On request</i>
Density	ISO 845	kg/m ³	80 (1)	100 (1)	115 (1)	135 (1)	150 (1)	200 (1)
Compression Strength	ASTM D 1621 b	MPa	1,0	1,5	1,8	2,3	2,6	3,6
Compression Modulus	ASTM D 1621 b	MPa	75	105	120	150	180	220
	ISO 844	MPa	60	70	80	90	105	157
Shear Strength	ISO 1922	MPa	0,6	0,9	1,0	1,3	1,4	1,8
Shear Modulus	ISO 1922	MPa	20	25	30	35	45	50
Shear Strain	ISO 1922	%	35	30	20	15	10	5
Tensile Strength	ASTM C 297	MPa	2,1	2,4	2,7	3	3,4	4,4
Tensile Modulus	ASTM C 297	MPa	75	105	120	150	190	230
Thermal Conductivity	DIN EN ISO 12667	W/mK	0,032	0,034	0,035	0,037	0,041	0,043

Fire, Smoke & Toxicity (2)

B2	EN ISO 11925:2	B2	B2	B2	B2	B2	B2	B2
FMVSS 302	ISO 3795	Passed	Passed	Passed	Passed	Passed	Passed	Passed
UL	UL 94	HBF	HBF	HB	HBF	HBF	HBF	HBF
Toxicity	DIN EN ISO 5659-2:2007 & DIN 5510:2009-05	tbd	tbd	Passed	tbd	tbd	tbd	tbd

	Thickness	Length	Width	Diagonal
Dimensions (mm) (3)	from 5 to 120	2.440	1.005	Depending on length/width
Tolerances (mm)	+/- 0,5	+/- 5	+/- 5	< 4

(1) Tolerances +/-5 kg/m³.

(2) For detailed test results and certificates please contact us.

(3) Standard dimension. Further dimensions on special request. Max Boards sizes up to 1250 x 2500mm based upon request / volume.

All values are average production figures. Minimum values on request.

Appearance : Voids and holes will meet following requirements for a standard board size of :
1.005M*2.440M

- < Ø 3mm _____ not considered as hole
- Ø 3 - Ø5mm_____ max 25 per board
- Ø 6 - Ø10mm____ max 5 per board
- Ø 11 - Ø15mm_ max 3 per board
- > Ø 15mm _____none

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