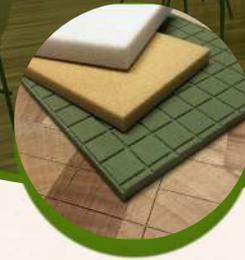


PERFORMANCE PET FOAM

Boards and Sheets from APM

SPECIFICATION

- ❖ Ultimate corrosion & chemical resistance.
- ❖ Minimum water absorption & maximum weather resistance.
- ❖ Standard fire & heat resistance (thermal insulation).
- ❖ Does not rot like woods, plywood, paperboard etc..
- ❖ Exceptional physical strength and lightweight.
- ❖ Exceptional durability and thermal stability.
- ❖ Available in various densities.
- ❖ Manufactured sustainably, lowest carbon footprint.
- ❖ Can be used to manufacture laminated and sandwich panels.
- ❖ Can be used to manufacture thermoformed parts and components.
- ❖ Easy installation and usage.
- ❖ Does not release any toxic substances or byproducts during and after product lifecycle.



APPLICATIONS

- ❖ Bus, train, rail, cruise, car and boat seat bottoms.
- ❖ Boat, yacht and cruise decking, hulls and flooring.
- ❖ Stadium sheds, wall, partition, ceiling and roofing.
- ❖ Exterior and interior walls for bus, caravan, train, rail, boat, yacht and cruise.
- ❖ Car, bus, train, boat, yacht, cruise hood and roofing.
- ❖ Wall panels for private houses, restaurants, shopping mall, office buildings, commercial building, warehouses, storage rooms etc.
- ❖ Roofing and ceiling panels for private housing, restaurants, commercial buildings, shopping mall, warehouse industrial roofing.
- ❖ Door and window panels.
- ❖ Floor, wall and roof thermal insulation
- ❖ Noise insulation wall and partition.
- ❖ Wind and storm shield walls and partitions.
- ❖ Advertisement and display boards.
- ❖ Indoor and outdoor furniture, table, park bench, chair, walking closet, kitchen table, drawers.
Snowboard, surfboard, ski, football helmets, leisure goods and articles.



APM
Advanced Performance
Materials

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TEST STANDARDS		Units (Imperial)	65	80	110	135	150	200	250	320
Nominal Density	ISO 845	Lbs. / cu.ft	4.1	5	6.9	8.4	9.4	12.5	15.6	20
Compressive Strength	ISO 844	psi	110	145	260	335	375	580	770	1015
Compressive Modulus	ISO 844	psi	5800	8265	13050	15225	17400	25375	34075	46400
Tensile Strength	ASTM C297	psi	260	290	420	435	480	565	625	695
Tensile Modulus	ASTM C297	psi	9570	11600	20300	20300	26825	34075	39150	50750
Shear Strength	ISO 1922	psi	75	85	140	175	195	255	290	305
Shear Modulus	ISO 1922	psi	1885	2320	3770	5075	5365	7395	10150	13050
Shear elongation at break	ISO 1922	%	15	13	10	7	7	5	3	2
Thermal conductivity at 75 °F	ASTM C177	BTU.in/ft2.hr.°F	0.236	0.236	0.236	0.257	0.284	0.298	0.326	0.340
Standard Sheet (Plain)	Length	inch	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
	Width ^[1]	inch	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
	Thickness	inch	1/8 to 4							

Values shown are nominal average determined from independent laboratory and house testing. Tests are perpendicular to the plane.

[1] Sheet width is also available in 48" upon request.

Color:	Green	Green	Green	Green	Green	Green	Green	Green	Green
Density Tolerance:	+ / - 10%								
Water absorption	< 1%								
Processing temperature:	302 °F								

TEST STANDARDS		Units (Metric)	65	80	110	135	150	200	250	320
Nominal Density	ISO 845	Kg. / m ³	65	80	110	135	150	200	250	320
Compressive Strength	ISO 844	MPa	0,75	1,0	1,8	2,3	2,6	4,0	5,3	7,0
Compressive Modulus	ISO 844	MPa	40	57	90	105	120	175	235	320
Tensile Strength	ASTM C297	MPa	1,8	2,0	2,9	3,0	3,3	3,9	4,3	4,8
Tensile Modulus	ASTM C297	MPa	66	88	140	140	185	235	270	350
Shear Strength	ISO 1922	MPa	0,5	0,6	0,95	1,2	1,35	1,75	2,0	2,1
Shear Modulus	ISO 1922	MPa	13	16	26	35	37	51	70	90
Shear elongation at break	ISO 1922	%	15	13	10	7	7	5	3	2
Thermal conductivity at 24 °C	ASTM C177	W/m.K	0,034	0,034	0,034	0,037	0,041	0,043	0,047	0,049
Standard Sheet (Plain)	Length	mm	2448	2448	2448	2448	2448	2448	2448	2448
	Width ^[1]	mm	1008	1008	1008	1008	1008	1008	1008	1008
	Thickness	mm	3 to 100							

Values shown are nominal average determined from independent laboratory and house testing. Tests are perpendicular to the plane.

[1] Sheet width is also available in 1220mm upon request.

Color:	Green	Green	Green	Green	Green	Green	Green	Green	Green
Density Tolerance:	+ / - 10%								
Water absorption	< 1%								
Processing temperature:	150 °C								