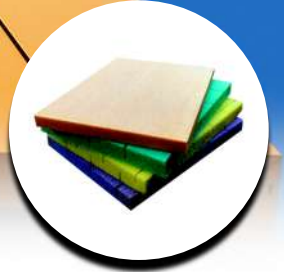
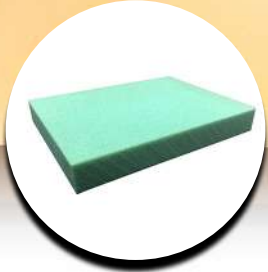


Performance PVC Foam

Boards and Sheets from APM



SPECIFICATION

- › Ultimate water & weather resistance.
- › Enhanced corrosion & chemical resistance.
- › Standard fire & heat resistance (thermal insulation).
- › Does not rot like woods, plywood, paperboard etc.
- › Exceptional physical strength and super lightweight.
- › Exceptional durability and thermal stability.
- › Available in various densities, a large selection.
- › Manufactured sustainably, lowest carbon footprint.
- › Can be used to manufacture laminated and sandwich panels.
- › Can be use paint or coat with thermoset resins of your choice.
- › Can be used to manufacture thermoformed parts and components.
- › Easy installation and usage. Complete customization available.
- › Does not release any toxic substances or byproducts during and after product lifecycle.



APPLICATION

- › 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)	40	48	60	80	100	130	200	250
Density	ASTM D1622	Lbs. / cu.ft	2.5	3	3.75	5	6.24	8.12	12.5	15.7
Compressive Strength	ASTM D1621-10	psi	74	100	139	207	280	396	699	949
Compressive Modulus	ASTM D1621-10	psi	4061	4786	6672	9862	13053	18130	30168	40176
Tensile Strength	ASTM D1623	psi	107	138	306	377	447	553	935	1031
Tensile Modulus	ASTM D1623	psi	10733	12618	15374	19870	24511	31328	58885	62221
Shear Strength	ASTM C273	psi	65	80	112	164	216	294	497	677
Shear Modulus	ASTM C273	psi	1885	2321	3046	4206	5366	7107	11023	13924
Shear elongation at break	ASTM C273	%	5	9	13	20	25	32	41	40
Thermal conductivity at 75 °F	ASTM C-177	BTU.in/ft2.hr.°F	0.21	0.21	0.21	0.23	0.24	0.27	0.33	0.39
Standard Sheet (Plain)	Length	inch	112.20	107.48	96.45	85.83	80.71	74.80	62.99	59.06
	Width	inch	52.36	50.00	45.27	40.16	37.40	33.47	29.53	27.56
	Thickness	inch	1/8 to 3 ¼	1/8 to 2 ¾	1/8 to 2 ¾	1/8 to 2 ¾	1/8 to 2 ½	1/8 to 2	1/8 to 1 ¾	1/8 to 1 ¾

Color:	Light Blue	Purple	Yellow	Green	Pink	Blue	Brown	Dark Green
Density Tolerance:	+ / - 10%							
Water absorption	< 1%							
Processing temperature:	176 °F							

TEST STANDARDS		Units (Metric)	40	48	60	80	100	130	200	250
Density	ASTM D1622	Kg. / m³	40	48	60	80	100	130	200	250
Compressive Strength	ASTM D1621-10	MPa	0,51	0,69	0,96	1,43	1,93	2,73	4,82	6,54
Compressive Modulus	ASTM D1621-10	MPa	28	33	46	68	90	125	208	277
Tensile Strength	ASTM D1623	MPa	0,74	0,95	2,11	2,60	3,08	3,81	6,45	7,11
Tensile Modulus	ASTM D1623	MPa	74	87	106	137	169	216	406	429
Shear Strength	ASTM C273	MPa	0,45	0,55	0,77	1,13	1,49	2,03	3,43	4,67
Shear Modulus	ASTM C273	MPa	13	16	21	29	37	49	76	96
Shear elongation at break	ASTM C273	%	5	9	13	20	25	32	41	40
Thermal conductivity at 24 °C	ASTM C-177	W/m.K	0,031	0,031	0,031	0,033	0,035	0,039	0,048	0,056
Standard Sheet (Plain)	Length	mm	2850	2730	2450	2180	2050	1900	1600	1500
	Width	mm	1330	1270	1150	1020	950	850	750	700
	Thickness	mm	3 to 80	3 to 70	3 to 70	3 to 70	3 to 64	3 to 51	3 to 45	3 to 45

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

Color:	Light Blue	Purple	Yellow	Green	Pink	Blue	Brown	Dark Green
Density Tolerance:	+ / - 10%							
Water absorption	< 1%							
Processing temperature:	80 °C							