

Technical Data sheet for PVC foam cores by CA Composites

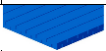
性能/Properties	Measurement Standards	Units	P45	P 60	P80	P 100	P130	P200
表观密度/Density	ISO 845	kg/m ³	40	55	75	95	125	195
		lb/ft ³	2.5	3.4	4.7	5.9	7.8	12.1
压缩强度/Compression Strength	ASTM 1621B	MPa	0.65	0.85	1.35	2.21	3.02	4.81
		psi	94	123	196	321	438	698
压缩模量/Compression Modulus	ASTM 1621B	MPa	52	71	92	136	172	242
		psi	7542	10288	13343	19725	24947	35099
拉伸强度/Tensile Strength	ASTM C297	MPa	1.42	1.61	2.21	3.52	4.78	7.15
		psi	206	234	321	511	693	1037
拉伸模量/Tensile Modulus	ASTM C297	MPa	55	75	95	132	175	253
		psi	7975	10875	13775	19145	25375	36695
剪切强度/Shear Strength	ASTM C 273	MPa	0.55	0.7	1.11	1.63	2.19	3.52
		psi	80	102	161	236	318	511
剪切模量/Shear Modulus	ASTM C 273	MPa	16	22	31	36	51	86
		psi	2321	3191	4496	5221	7397	12473
剪切应变/Shear Strain	ASTM C 273	%	12	20	30	40	40	40
吸水率/Water Absorption	ISO 2896	%	1.9	1.8	1.6	1.5	1.4	1.2

Product Name	Color	Max. Size(in mm)
P45	Yellow	2500*1250*85
P60	Purple	2400*1200*85
P80	Yellow	2400*1200*85
P100	Yellow	2450*1250*88
P130	Green	2200*1100*80
P200	Yellow	2200*1100*80
P250	Pink	2050*1050*75
P300	Dark Green	1950*980*65
P45	Dark Yellow	1700*850*50
P60	Dark Yellow	1550*800*45
P80	Dark Yellow	1480*780*45
Tolerances: length+width: +/-10 mm, thickness: +/-0.5 mm		
These specifications do change periodically		

Available Surface Finishing

Single Plain		
Perforated Foam 打孔板	2-3mm diameter holes drilled on the foam sheet. The holes are 20mm apart. These holes assist in expelling air out and letting resin flow.	

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Grooved Foam(VIC) 十字开槽	Sheets can be grooved(shallow cut on the surface- only 2mm deep) on one side as well as both. Groove spacing is 20X20 mm	
Grooved and perforated (VIC with holes) 十字开槽+打孔	Grooved with perforated bleeder holes..	
Double Cut (DC) 双曲板	Sheets are cut dip inside 50-60% through the thickness. Applicable for curved parts. Resin intake is low	
Double Cut with holes(DC) 双曲板 + 打孔	Double cut with 2 mm diameter perforation	
Contoured with scrim	Plates are cut to their depth, only leaving 2mm bottom untouched. Slot sizes are 30x30mm.fiber glass cloth on bottom side of sheet	
Contoured scrim with perforation holes	Contoured with 2mm perforation holes	

Key features

Produced according to international standards
Wide range of densities available : 45-250 kg/m ³
Compatible with a wide range of resin systems
Ideal for marine application, wind blades, sports goods, high speed train, aerospace etc..
High chemical and moisture resistance
Close cell structure, hence almost no resin absorption
High temperature processing (prepreg compatible) ; Can be cured at maximum 120 celsius for half an hour
Long term working temperature : -240 ℃ ~+80 ℃
Good compressive strength and stiffness
Can be cured in an autoclave (density 130 or higher only)