

CA COMPOSITES LIMITED-PMI Foam Core Technical Data Sheet

			CK series		XK series					CS series		
			<i>Coarse-cell size - Offers high adhesive strength; it serves as a core material for sandwich structures and has good adhesion with the skin.</i>		<i>Finer-cell size- Offers lower resin absorption; it has good overall performance and a wide range of applications. High-density products are suitable for underwater buoyancy materials.</i>					<i>Ultra-fine-cell size- Offers extremely low resin absorption.</i>		
	Item	Unit	CACK-52	CACK-72	CAXK-32	CAXK-52	CAXK-75	CAXK-110	CAXK-200	CACX-40	CACX-75	CACX-110
1	Appearance	/										
2	Density	kg/m ³	52±5	72±7	32±4	52±5	75±7	110±11	200±20	45±5	75±7	95±10
3	Length	mm	2500	2000	2500	2500	2500	2200	1800	2500	2200	2000
4	Width	mm	1250	1250	1250	1250	1250	1100	800	1250	1100	1000
5	Thickness	mm	80	110	80	80	80	70	60	80	70	65
4	Dimensional Stability (at 130°C after 3 hours) ≤	Absolute value %	2.2	2.0	2.5	2.2	2.0	1.5	1.2	2.4	2.0	1.8
5	Compression Strength ≥	Mpa	0.65	1.2	0.25	0.6	1.2	2.2	6.0	0.45	1.0	1.5
6	Compression Modulus ≥	Mpa	32	40	7	30	40	80	160	22	40	60
7	Tensile Strength ≥	Mpa	0.8	1.0	0.6	1.0	1.5	2.5	5.5	1.0	1.5	1.7
8	Tensile Modulus ≥	Mpa	45	75	25	48	80	130	240	50	80	90
9	Shear Strength ≥	Mpa	0.5	1.0	0.25	0.5	1.0	1.7	2.9	0.4	1.0	1.4
10	Shear Modulus ≥	Mpa	14	24	5.5	14	24	40	80	12	35	40
11	Heat Deflection Temperature (Compression method) ≥	°C	180	180	180	180	180	180	180	180	180	180
12	Porosity	≥	95	95	95	95	95	95	95	95	95	95
NOTE 1: For the materials outside the density tolerance range of nominal density, relevant technical agreements or mutual agreement shall be referred to for implementation.												
NOTE 2: PMI foam with other nominal density ranges or size specifications can be produced and delivered through mutual agreement between the supplier and the buyer.												
NOTE 3: The maximum precision for length and width cutting is ±10mm, and the maximum precision for thickness cutting is ±0.5mm.												
