

# CA COMPOSITES LIMITED

## TDS for Kevlar Honeycomb Cores

Kevlar Honeycomb Cores (Cell size- Density)	Compression		Plate Shear					
	bare		"L" direction			"W" direction		
	Strength		Strength		Modulus	Strength		Modulus
	Typ.	Min.	Typ.	Min.	Typ.	Typ.	Min.	Typ.
CA-KH-1.83-40	1.75	1.50	1.11	1.00	85	0.62	0.56	39
CA-KH-1.83-48	2.05	1.66	1.45	1.25	124	0.80	0.70	55
CA-KH-1.83-56	3.02	2.62	1.96	1.80	150	0.98	0.81	88
CA-KH-1.83-64	3.60	3.20	2.05	1.85	165	1.08	0.94	108
CA-KH-2.75-40	1.80	1.52	1.11	1.00	92	0.59	0.48	34
CA-KH-2.75-48	2.10	1.90	1.48	1.26	121	0.84	0.59	64
CA-KH-2.75-56	3.00	2.65	1.90	1.78	146	0.96	0.84	92
CA-KH-2.75-64	3.58	3.28	1.99	1.78	150	1.04	0.89	120
CA-KH(OX)-2.75-32	0.71	0.60	0.45	0.36	32	0.32	0.28	46
CA-KH(OX)-2.75-48	1.85	1.45	1.16	0.90	96	0.97	0.78	79

- Above values are in MPa
- Performed at room temperature
- tolerance on density:  $\pm 10\%$
- tolerance on cell length:  $\pm 5\%$
- Thickness of core: 12mm