



# 常州隼隆复合材料有限公司

## CHANGZHOU JLON COMPOSITE CO.,LTD

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Introduction:



Cross-linked, closed cell PVC structural foam has good specific stiffness, specific strength. Compression, tensile, shear and bending strengths are excellent.

PVC foam core also has good dimensional stability and easy to process, suitable for a variety of processes. It is an ideal core material for lightweight & high-strength composite sandwich structures.

It provides excellent fatigue resistance, impact resistance and very low water absorption. Heat and sound insulation are also very good.

#### Features:

High performance weight ratio, good impact resistance

Resistance to many chemicals, almost no water absorption

Low flammability, self-extinguishing from fire

Suitable for a variety of composite molding methods: Vacuum infusion, spray up, hand lay-up, vacuum bagging

Good impact strength

Low resin absorption

Good sound & thermal insulation

#### Application:

marine, surface transport, aerospace, and wind energy industries

Specifications:

Item	Standard	Unit		P48	P60	P80	P100	P130	P200	P250
Density	ISO 845	Kg/m <sup>3</sup>	Average Tolerance	48 43-55	60 -6,+9	80 ±10	100 ±10	130 ±15	200 ±20	250 ±30
Compression Strength	ASTM D1621	MPa	Average Minimum	0.60 (0.50)	0.9 (0.7)	1.4 (1.15)	2.0 (1.65)	3.0 (2.4)	4.8 (4.2)	6.2 (NA)
Compression Modulus	ASTM D 1621	MPa	Average Minimum	48 (35)	70 (60)	90 (80)	135 (115)	170 (145)	240 (200)	300 (NA)
Tensile Strength	ASTM D 1623	MPa	Average Minimum	0.95 (0.8)	1.8 (1.5)	2.5 (2.2)	3.5 (2.5)	4.8 (3.5)	7.1 (6.3)	9.2 (NA)
Tensile Modulus	ASTM D 1623	MPa	Average Minimum	35 (28)	75 (57)	95 (85)	130 (105)	175 (135)	250 (210)	320 (NA)
Shear Strength	ASTM C 273	MPa	Average Minimum	0.55 (0.50)	0.76 (0.63)	1.15 (0.95)	1.6 (1.4)	2.2 (1.9)	3.5 (3.2)	4.5 (NA)
Shear Modulus	ASTM C 273	MPa	Average Minimum	16 (14)	20 (16)	27 (23)	35 (28)	50 (40)	85 (75)	104 (NA)
Shear Elongation	ASTM C 273	%	Average Minimum	10 (8)	20 (10)	30 (15)	40 (25)	40 (30)	40 (30)	40 (NA)
Standard Size	Width	mm	±5	1270	1120	1010	940	840	740	700
	Length	mm	±5	2730	2350	2160	2040	1880	1600	1500
	Thickness	mm	±0.5	5~80	5~70	3~65	3~60	3~50	3~40	3~40

