

SHANDONG TAIRAN IMPORT AND EXPORT CO.,LTD

Address:NO. 3, Yanhe Road, Boshan, Zibo, Shandong, China
Email:wp@cnjinganrefractory.com/sdwenping@163.com
Contact:Rose Tel/Wechat:+86-13275332819
Tel:86-533-4188518 Fax:86-533-4188518

PVC Foam core board



PVC HXCELL Foam Core Board is composed of thermoplastic PVC and cross-linked thermosetting polyurethane, commonly referred to as cross-linked PVC foam. The main product models are Divinycell, klegecell, Herexc and Hxccl. The temperature range of the product is - 240 °C ~+80 °C , which can resist the corrosion of various chemicals. The flame retardant PVC foam core plate is commonly used in the bottom, deck, bulkhead and superstructure.

1, Technical index of PVC Foam Core Board HXCELL type

Item	standard	unit	result	HX45	HX60	HX80	HX130	HX200	HX300
density	ISO854	Kg/m3	AVG	45	60	80	130	200	300
			range	40-50	54-69	72-92	120-150	180-220	280-320
compressive strength	ISO844:2006	Mpa	AVG	0.68	0.99	1.72	3.19	5.11	8.9
			Min	0.56	0.88	1.63	2.61	4.69	7.6
shear strength	ISO1922:2012	Mpa	AVG	0.55	0.94	1.23	2.42	3.32	4.91
		Mpa	Min	0.47	0.85	1.11	2.13	3.03	4.32
shear modulus	ISO1922:2012	Mpa	AVG	16	27	33.9	62	83	129
		Mpa	Min	14	23	28	51	72	108
tensile strength	ASTMC297	Mpa	AVG	0.96	1.81	2.82	4.21	5.23	9.65
		Mpa	Min	0.83	1.69	2.33	3.22	4.92	8.87
tensile modulus	ASTMC297	Mpa	AVG	72	96.1	149	221	296	408
		Mpa	Min	63	83	128	173	238	356
compression Modulus	ISO844:2006	Mpa	AVG	48	87.4	135	195	313	460
			Min	36	76	122	173	274	390

2, Description of PVC Foam Core Board

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HXCELL is a rigid PVC foam structural plate, which is a new type of high-strength material with the characteristics of light weight, high strength and fatigue resistance. HXCELL series foam is compatible with almost all resins and can be extended to many fields, not only in wind turbines, high-speed trains, luxury yachts, aerospace and other fields, but also in many undeveloped high-end fields, including building fire protection, thermal insulation, sound insulation, etc.

The product is 100% closed cell structure, with superior mechanical properties, resistance to various chemical corrosion, good dielectric properties, sound insulation, heat insulation, and is an excellent high-strength multipurpose new material.

3, Main characteristics

- 1) 100% closed cell structure, sound insulation, and good insulation effect
- 2) Superior mechanical properties, high compression strength, shear strength, etc
- 3) Low density, light weight, density range 40-300kg/m³
- 4) Resistant to corrosion from multiple chemical components, with good fatigue resistance
- 5) Wide temperature range for use, ranging from -240 °C ~ +80 °C

4, Usage

The use of HXCELL products is becoming increasingly widespread, such as wind turbine blades, rail transit, cruise ships, sports equipment, aerospace, electronic diaphragms, building fire and sound insulation, etc

5. Storage conditions

- 1) The storage environment temperature shall not exceed 40 °C, and the temperature range shall be between 5% and 75%
- 2) To avoid irregular shrinkage of the product, the product should not be directly exposed to sunlight, and the surrounding temperature and humidity should be kept uniform
- 3) When there is a significant difference between the storage environment and the use site, the product should be stored at the use site for at least 24 hours before use

6. Our company promises

- 1) Provide free samples for customers to inspect
- 2) Provide free technical consulting services to customers, making them carefree
- 3) The products shipped are 100% qualified

7. In recent years, this product has exported 2000m³ to Russia

[Do you want to find a professional supplier of PVC HXCELL Foam Core Board?](#)

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[Then please contact with us](#)

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Email:wp@cnjingganrefractory.com/sdwenping@163.com

TEL: 86-0533-4188518 / **FAX:** 86-0533-4188518

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