Production Information

HyboFOAM® H

Introduction

HyboFOAM® H is a closed-cell rigid foam based on polymethacrylimide (PMI), which contains no halogen at all. The cell size is coarse and uniform.

Application

HyboFOAM® H has coarse holes and excellent peel strength, mainly used for dynamic components such as rotors/blades.

Processing and production

HyboFOAM® H can withstand a medium temperature curing process with a maximum temperature of 180 ℃ and a maximum pressure of 0.5 MPa, depending on the density. Suitable for curing methods such as autoclave, vacuum bag, RTM, VARTM, VARI, HP-RTM, etc.

Thermoforming and Shaping

To meet different dimension parts and geometry, it is very easy to shape **HyboFOAM® H** by thermo-shaping, bonding by various adhesive, and common CNC machine.

HYBO can also directly provide high-precision preformed or ready to use foam core materials with complex or simple geometric shapes.

Property	Test Method *	Unit	HyboFOAM® H 40	HyboFOAM® H 52	HyboFOAM® H 72	HyboFOAM® H 110
Density	GB/T 6343 ASTM D1622 ISO 845	kg/m3	40	50	72	110
		g/cm3	0.04	0.05	0.072	0.11
		lb/ft3	2.50	3.12	4.49	6.87
Compressive Strength	GB/T 8813 ASTM D1621 ISO 844	MPa	0.57	0.8	1.3	2.9
		psi	83	116	189	421
Compressive Modulus		MPa	30	38	45	120
		Psi	4350	5510	6525	17400
Tensile Strength	GB/T 1040.2 ASTM D638 ISO 527-2	MPa	0.68	0.9	1.55	2.8
		psi	99	131	225	406
Tensile Modulus		MPa	45	55	85	140
		psi	6525	7975	12325	20300
Elongation at Break		%	2	2	2	2
Shear Strength	GB/T 1455 ASTM C273 DIN 53294	MPa	0.43	0.55	1.33	2
		psi	62	80	193	290
Shear Modulus		MPa	15	20	28	45
		psi	2175	2900	4060	6525
Heat Deflection Temperature	GB/T 31295 DIN 53424	℃	⩾180			

The above values are typical values for nominal density, and the measured values will vary due to manufacturing deviations.
* Data is based on ASTM standard test methods, but GB or ISO values can be confirmed upon request.

For More Information

If you have questions or want to discuss the use of **HyboFOAM® H** in your application, we recommend that you communicate with your local contacts.

Please visit **www.hybofoam.com**, find and contact the local contact person directly by phone or email.

Disclaimer

Contact Information

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