Production Information

HyboFOAM® CRH

Introduction

HyboFOAM® CRH is a closed-cell rigid foam based on polymethacrylimide (PMI), which contains no halogen at all. The cell size is fine and uniform. It has excellent Flame retardant characteristics.

Processing and production

HyboFOAM® CRH can withstand a medium temperature curing process with a maximum temperature of 150 °C 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.

Due to its excellent surface resin absorption, engineers can find a perfect balance between peel strength and lightweight requirements.

Application

The application of **HyboFOAM® CRH** is pretty wide. Basically, it is suitable for most of sandwich structure composites parts in vehicle/high speed railway, such as interiors and wall panel, as well as the ones require Flame retardant property.

Thermoforming and Shaping

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

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

Property	Test Method*	Unit	HyboFOAM® CRH 52	HyboFOAM® CRH 75	HyboFOAM® CRH 110
Density	GB/T 6343	kg/m³	52	75	110
	ASTM D1622	g/cm ³	0. 052	0. 075	0. 11
	ISO 845	lb/ft³	3. 25	4. 68	6. 87
Compressive Strength	GB/T 8813 ASTM D1621 ISO 844	MPa	0. 9	1.5	3
		psi	131	218	435
Compressive Modulus		MPa	40	70	110
		psi	5800	10150	15950
Tensile Strength		MPa	1.8	2. 6	4
	GB/T 1040. 2	psi	261	377	580
Tensile Modulus	ASTM D638	MPa	65	110	150
	ISO 527-2	psi	9425	15950	21750
Elongation at Break		%	3	3	2. 5
Shear Strength	GB/T 1455 ASTM C273 DIN 53294	MPa	0.8	1. 2	2. 3
		psi	116	174	334
Shear Modulus		MPa	20	35	50
		psi	2900	5075	7250
Heat Deflection Temperature	GB/T 31295 DIN 53424	°C		≥160	

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.

HyboFOAM®

For More Information

If you have questions or want to discuss the use of **HyboFOAM® CRH** 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

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