Production Information

## HyboCORE® SK

### Introduction

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

## Processing and production

HyboCORE® SK can withstand a medium temperature curing process with a maximum temperature of 150 °C and a maximum pressure of 0.7 MPa, depending on the density. Suitable for curing methods such as autoclave, vacuum bag, RTM, VARTM, VARI, HP-RTM, etc.

The cost of HyboCORE® SK is very advantageous, and it is at the same level as the PVC foam core material. Without affecting material costs, customers can adopt higher curing temperatures and faster curing speeds to reduce process and manufacturing cost.

## Application

The application of **HyboCORE® SK** is pretty wide. Basically, it is suitable for most of sandwich structure composites parts, including X-Ray/CT tables, sports equipment; vehicle/high speed railway, and floating/fishing kits, etc.

## Thermoforming and Shaping

To meet different dimension parts and geometry, it is very easy to shape **HyboCORE® SK** 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.

Test Method *	Unit	HyboCORE® SK 60	HyboCORE® SK 80	HyboCORE® SK 110	HyboCORE® SK 150
GB/T 6343 Density ASTM D1622	kg/m³	60	80	110	150
	g/cm³	0. 06	0. 08	0.11	0. 15
ISO 845	lb/ft³	3. 75	4. 99	6. 87	9. 36
0D /T 0040	MPa	1. 2	2	3. 5	5
	psi	174	290	508	725
	MPa	50	75	130	200
Compressive Modulus ISO 844	psi	7250	10875	18850	29000
Tensile Strength GB/T 1040.2	MPa	2. 1	3. 1	4. 5	5. 2
	psi	305	450	653	754
ASTM D638	MPa	70	100	140	200
180 527-2	psi	10150	14500	20300	29000
]	%	6	6	6	6
0D /T 1155	MPa	1	1. 6	2.5	3. 4
	psi	145	232	363	493
	MPa	26	40	60	80
DIN 33274	psi	3770	5800	8700	11600
GB/T 31295 DIN 53424	°C		≥165		≥160
	GB/T 6343 ASTM D1622 ISO 845  GB/T 8810 ASTM D1621 ISO 844  GB/T 1040. 2 ASTM D638 ISO 527-2  GB/T 1455 ASTM C273 DIN 53294  GB/T 31295	GB/T 6343 kg/m³ ASTM D1622 g/cm³ ISO 845 Ib/ft³  GB/T 8810 MPa psi MPa psi MPa gB/T 1040. 2 ASTM D638 MPa ISO 527-2 psi %  GB/T 1455 ASTM C273 DIN 53294 MPa psi MPa psi MPa psi %	Test Method *	GB/T 6343	SK 60   SK 80   SK 110

# **HyboCORE**®

#### For More Information

If you have questions or want to discuss the use of <code>HyboCORE®</code> SK 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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