FIBERMAX™

CELLFOAM DATA SHEET

			TYPES							
			40	48	60	80	HT-80	100	130	200
NOMINAL DENSITY	ISO 845	Kg/m^3	40	48	60	80	80	100	130	200
THERMAL CONDUCTIVITY COEFF.	ISO 830	W/m K	0,031	0,031	0,031	0,033	0,033	0,035	0,039	0,048
THERMAL CURVING / BENDING STABILITY	DIN 53424	°C	80	80	85	85	100	90	95	100
MINIMUM TEMPERATURE TESTED		°C	-200	-200	-200	-200	-200	-200	-200	-200
THERMAL EXPANSION COEFF.		x10-6°C	40	40	40	35	35	35	30	25
COMPRESSIVE MODULUS	ISO 844	N/mm^2	37	44	67	97	96	121	183	300
COMPRESSIVE STRENGTH	ISO 844	N/mm^2	0,52	0,62	0,98	1,60	1,30	2,05	3,22	5,07
TENSILE MODULUS	DIN 53457	N/mm^2	68	71	100	146	138	162	227	358
TENSILE STRENGTH	ASTM D1623	N/mm^2	0,71	0,98	1,82	2,74	2,84	3,18	4,35	6,26
SHEAR MODULUS	ISO 1922	N/mm^2	15	16	21	30	29	36	55	77
SHEAR STRENGTH	ISO 1922	N/mm^2	0,47	0,52	0,79	1,20	1,26	1,48	2,44	3,44
SHEAR ELONGATION AT BREAK	ISO 1922	%	6	7	18	19	32	25	32	35
FLEXURAL MODULUS	ISO 1209	N/mm^2	24	32	40	70	70	80	120	160
BENDING STRENGTH	DIN 53423	N/mm^2	0,6	1,0	1,4	2,1	2,1	2,5	3,0	3,5
STYRENE ABSORBTION		g/m^2	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
WATER ABSORBTION	ASTM 272	Kg/m^2	0,09	0,09	0,07	0,06	0,06	0,04	0,03	0,02
HDT	DIN 53424	°C	100	115	125	125	135	125	125	n/a
STANDARD DIMENSIONS		mm	1330x2850	1270x2730	1150x2450	1020x2180	1005x2150	950x2050	850x1900	750x1600
SMALL DIMENSIONS		mm			1150x160	1080x150		950x1000		

SALES & ORDER PROCESSING
28th of October St No 8A, 37300
Agria, Greece, EU

EU ORDERING INFO
Tel: +30 24280 92210
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35 Grafton Way, W1T 5DB
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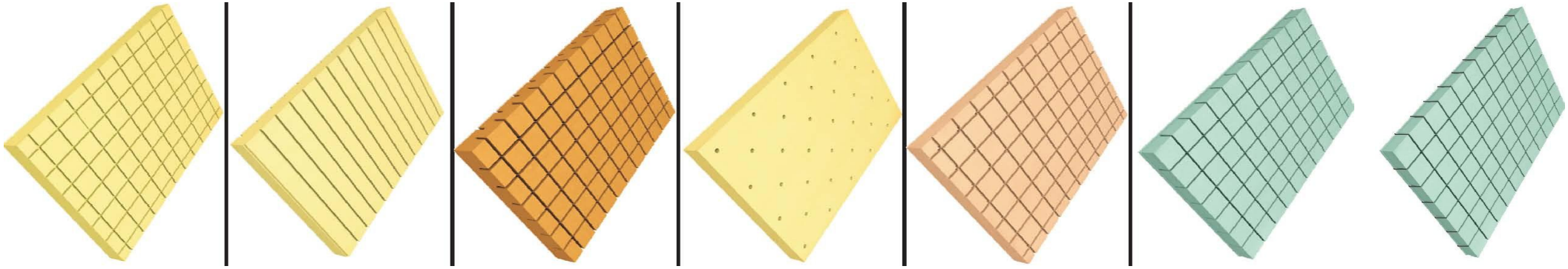
CELLFOAM FINISHING



GR 2	GR 1	FLEX	PF	GR 2 + PF	SCRIM	SCRIM + PF
Grooves: 20x20 mm cut: 2 mm 30x30 mm cut: 0.5 mm 40x40 mm cut: 0.8 mm	Grooves: 20 mm cut: 2 mm 30 mm cut: 0.5 mm 40 mm cut: 0.8 mm	Squares: 20x20 mm cut: 2 mm 30x30 mm cut: 0.5 mm 40x40 mm cut: 0.8 mm	Perforated: Diameter: 2 mm	Squares: 20x20 mm cut: 2 mm 30x30 mm cut: 0.5 mm 40x40 mm cut: 0.8 mm Perforated: diameter 2 mm	Squares: 20x20 mm cut: 2 mm 30x30 mm cut: 0.5 mm 40x40 mm cut: 0.8 mm	Squares: 20x20 mm cut: 2 mm Perforated: diameter 2 mm in the middle of each cut

DESCRIPTION

Is a lightweight, closed-cell PVC foam designed for universal use in sandwich structures. Ideally suited for both static and dynamic loading, it is compatible with all resin systems. Its excellent stiffness, high strength-to-weight ratio and toughness make it suitable for a wide range of sandwich applications. It can be easily cut with a knife (similar to plasterboards), shaped easily, for example with wood shaping tools, smoothed with sandpaper and can be thermoformed into curves.

Also available perforated (with holes) and grooved (with carved channels). The perforation and grooves are specifically designed and optimized to facilitate fast resin flow in the infusion/injection process. The perforation allows the resin to pass easily through the foam to the underside, while the grooves distribute the resin flow effectively.

The HT type is suitable for high temperature applications. For example, it can be used for autoclave prepreg sandwich curing at 120°C and 3 bar pressure. Higher temperature and pressure applications are possible, depending on the tolerance for potential partial collapse (collapse refers to a reduction in thickness without implying a loss of mechanical properties).

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