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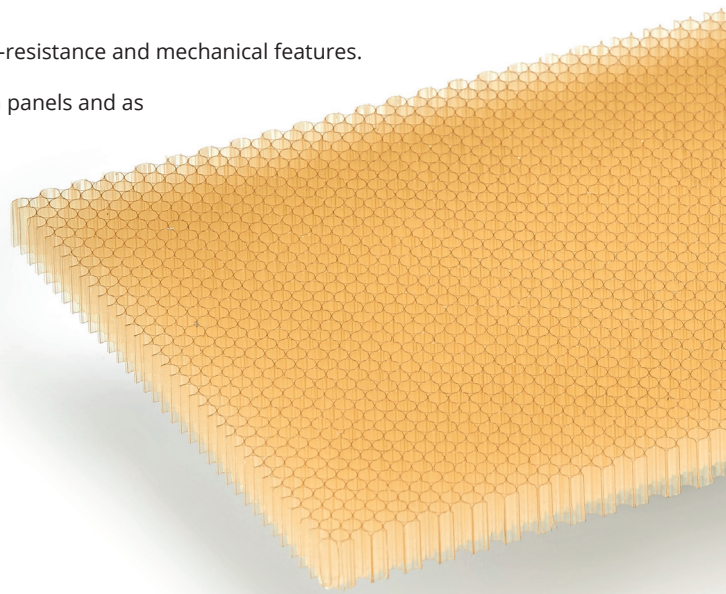
ALUMINIUM AND THERMOPLASTIC HONEYCOMBS, LAMINATES, SANDWICH PANELS

ENG

Polyetherimide honeycomb core

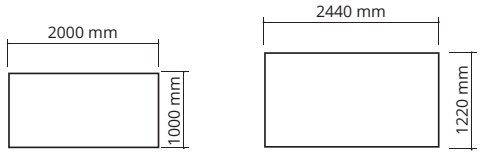
This polymer differs from other polymers because of its better high temperature-resistance and mechanical features.

It is employed, for example, to produce stealth panels for military use, for hi-tech panels and as core material for snow boards.



Honeycomb core's properties	Unit	Test Method	PEI 4.0 - 48 °C	PEI 4.0 - 64 °C	PEI 4.0 - 75 °C	PEI 4.0 - 120 °C	PEI 4.0 - 144 °C
Tube diameter	mm	+/- 0,2	4,2	4,2	4,2	4,2	4,2
Density	Kg/m³ pcf		56 3,5	64 4,00	75 4,68	120 7,49	144 8,99
Tolerance			+/- 5%	+/- 5%	+/- 5%	+/- 5%	+/- 5%
Compression strength	MPa psi	DIN 53 421	0,83 120	2,00 289	3,00 435	6,34 919	10,67 1547
Compression modules	MPa ksi	DIN 53 421	105 15,22	152 22,03	179 25,9	276 40	336 48,7
Shear strength (L and W directions)	MPa psi	DIN 53 294	0,63 91	0,95 137	1,35 195	2,10 304	3,30 478
Shear modulus (L and W directions)	MPa ksi	DIN 53 294	12,2 1,76	19,0 2,75	25,2 3,65	32,0 4,64	40,0 5,79
Temperature range	°C °F		-40 +170 -40 +338	-40 +170 -40 +338	-40 +170 -40 +338	-40 +170 -40 +338	-40 +170 -40 +338

Standard dimensions (other dimensions available on request)



Polyetherimide

Last Revised: 06/25_Rev.3

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