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HexaPan® HoneyComb | LightWeight Panel Systems

TECHNICAL DATA SHEET

CORE MATERIAL: PP

Dimensions			
Width x Length Tolerance (mm): ±10%			
Thicknesses (mm) : 5±10%			
Density (kg/m^3):80 ±10%			
Core Diamerter (mm):5			
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	1,3
Mechanical properties			
Tensile Strength at Yield	ISO 527-3	Mpa	29
Elongation at Yield	ISO 527-3	%	6
Tensile modulus	ISO 527-3	Mpa	1500
Flexural modulus	ISO 178	Mpa	1400
Izod Impact Strength (notched)	ISO 180	kJ/m2	
at 23°C		>50	
at -20°C		9	
Charpy Impact Strength (notched)	IS0 179	kJ/m2	
at 23°C		>50	
at -20°C		10	
Thermal properties			
Melting Point	ISO 3146	°C	165
ResistanceMoment W		13,5 cm3/m	
Thermal Elogation		λ	
80 C 6 saat		60,10-6 1/°C	
Heat Resistance	-40/ +80 ° C	Deformation isn't on the sheet	
Heat Isolation		2,3-2,7 W/m2K	
Chemical properties:			
Flammability	SAE J369-2007	Class	B

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LAMINATION MATERIAL: GLASS FIBER

Dimensions

Width x Lenght (mm): 1800x4380
Thicknesses Upper lamination (mm) : 1±0,1
Thicknesses Down lamination (mm): 1±0,1
Density Up lamination (gr/m^2): 1300 ±3
Density Down lamination (gr/m^2): 1300 ±3

Mechanical properties

Tensile Strength	ISO 527-3	Long.	43,5
	Mpa	Transv.	18,6
Elongation	ISO 527-3	Long.	1,3
	%	Transv.	1,8
Tensile modulus	ISO 527-3	Long.	8260
	Mpa	Transv.	2060
Flexural modulus	ISO 527-3	Long.	8000
	Mpa	Transv.	3150
Flexural Strength	ISO 527-3	Long.	50,1
	Mpa	Transv.	15,6

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HEXAPAN

Dimensions

Composition: GF+PP+GF
Width x Lenght (mm): ±10%
Thicknesses (mm) : 6,5±0,6
Density (g/m^2): 3100±%10

Mechanical properties

Four-Point Load

Max. Force	ASTM C393 M	N	Long.	7420
			Transv.	1330
Core shear stress at max force	ASTM C393 M	MPa	Long.	2,78
			Transv.	0,66
Cover Layer flexural stres at max. force	ASTM C393 M	MPa	Long.	158,71
			Transv.	37,86
Ball Tests	63,5 mm steel ball-1050 gr		The ball falls 0-650 mm high and deformation isn't on the sheet	
Local load	ASTM C365/C 365M, 2005	kg	≥250	
GF/ Honeycomb breaking down strenght		Kg/cm2	≥10	
Water absorbsion	ASTM D570-98	24 h in the water	Max %1	
Hell Tests	Equipment diameter is Ø5,5mm and the force is 50 kg on the 3 point	Deformation should'nt be over the 1mm to apply force on the sheet	Passed the tests	