



TECHNICAL DATA SHEET

CORE MATERIAL: PP			
Dimensions			
Width x Length (mm): 1800*4380			
Thicknesses (mm) : 19			
Density (gr/m ²):1000			
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)	ISO 179	kJ/m2	
at 23°C		>50	
at -20°C		10	
Thermal properties			
Melting Point	ISO 3146	°C	165
Resistance Moment W		13,5 cm ³ /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



LAMINATION MATERIAL: GLASS FIBER

Dimensions

Width x Length (mm): 1800x4380
Thicknesses Upper lamination (mm): 1±0,1
Thicknesses Down lamination (mm): 1±0,1
Density Up lamination (gr/m²): 1300 ±3
Density Down lamination (gr/m²): 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



HEXAPAN				
Dimensions				
Composition: GF+PP+GF Width x Length (mm): 1800*4380 Thicknesses (mm): 20+0,6 Density (kg/m ²): 5±%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 stress 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/cm ²	≥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	