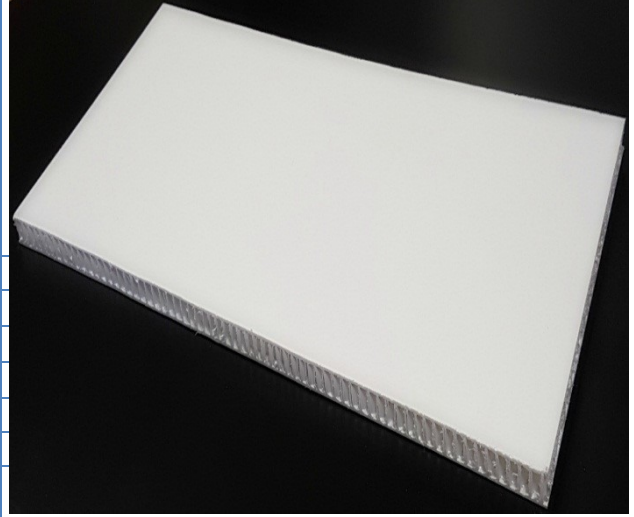


## TECHNICAL DATA SHEET

### GENERAL INFORMATION

**9.6** **PP** **100** / **20** **PP** **1.2**  
1 2 3 4 5 6

1	CORE DIAMETER	9.6mm
2	CORE TYPE	PP
3	CORE DENSITY	100kg/m <sup>3</sup>
4	TOTAL THICKNESS	20mm
5	LAMINATION	PP
6	LAMINATION THICKNESS	1.2mm



### CORE

#### Dimensions

Thicknesses (mm) : 19

Density (gr/m<sup>2</sup>): 1900

#### Rheological properties

Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	1.3
-------------------------------	----------	----------	-----

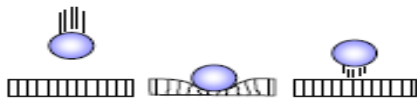
#### Mechanical properties

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/m <sup>2</sup>	at 23°C	>50
			at -20°C	9
Charpy Impact Strength (notched)	ISO 179	kJ/m <sup>2</sup>	at 23°C	>50
			at -20°C	10
Hardness Rockwell - R-scale	ISO 2039-2	82		


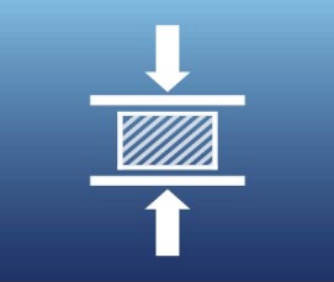

#### Thermal properties

Melting Point	ISO 3146	°C	165	
Vicat Softening Point	ISO 306	°C	50N-50°C per hour	75
			10N-50°C per hour	151
Heat Deflection Temperature	ISO 752	°C	1.80 Mpa - 120°C per hour	54
			0.45 Mpa - 120°C per hour	92

### IMPACT RESILIENT



The special honeycomb core made of polypropylene is an additional flexible area, whereby high-energy absorption, without core deformation, can be achieved.

<b>HEXAPAN</b>						
<b>LAMINATION</b>		<b>TOTAL THICKNESS (mm)</b>			<b>TOTAL DENSITY (g/m<sup>2</sup>)</b>	
<b>Material Composition</b>	<b>Thickness (mm)</b>					
PP	1.2	20			4500	
<b>Mechanical Properties</b>					<b>L</b>	<b>T</b>
<b>BENDING PROPERTIES ASTM C393</b>						
	Maximum Force	kg	75,15	150,75		
	Flexural Bending at Maximum Force	mm	4,50	2,10		
	Elongation	%	5,45	2,45		
	Core Shear Stress at Maximum Force	MPa	0,40	0,65		
	Surface Tension	MPa	8,55	13,40		
<b>LOAD PROPERTIES ASTM C365</b>						
	Maximum Force	kg	438,80			
	Compression at Maximum Force	mm	1,10			
	Compression Ratio	%	5,40			
	Permanent Compression Ratio	%	0,50			
	Compression Strength	MPa	1,70			
<b>LOAD DEFLECTION (mm)</b>						
	<b>SPAN (mm)</b>	<b>10kg</b>	<b>20kg</b>	<b>30kg</b>	<b>40kg</b>	<b>50kg</b>
	<b>200</b>	0,40	0,60	0,80	0,90	1,00
	<b>300</b>	0,70	1,05	1,35	1,60	1,85
	<b>600</b>	2,40	3,60	5,25	6,80	8,35
	<b>1000</b>	7,35	15,20	22,50	30,20	38,95

