TECHNICAL DATASHEET
TRIACELL

Standards		
Parameter	Standard	Tolerance
Length	3050 mm	- 0 / + 1%
Width	2050 mm	- 2 mm / + 2 mm
Thickness	1,8 - 10,0 mm	- 0,2 mm / + 0,1 mm
Weight	250 - 3500 g/m²	- 5% / + 5%
Squarness	n.a.	max 1%

Treatments		
Corona	TRIAPRINT	≥ 40 mN / m
Anti-static		On request
Flame Retardant		On request
Anti - UV		On request

Delivery program				
cell diameter	thickness (mm)	weight(g/m²)	3D-cutting	2D- cutting
Ø 4 mm	1,8	250		
	2,0	300		
	2,4	450	X	
	2,7	600	X	
	3,1	750	X	
	3,4	900	X	
	3,6	1000	X	
	4,0	1250	X	
Ø 8 mm	5,0	1000		X
	5,2	1250		X
	5,6	1500		X
	5,7	1600		X
	5,8	1750		X
	6,0	2000		X
Ø 12 mm	8,5	1750		
	8,8	2000		
	9,0	2500		
	9,6	3000		
	10,0	3500		
TRIAPRINT				

Properties of the raw material *			
Polypropylene			
Melting point		ISO 3146	165°C
Deformation temperature (0,45MPa)		ISO 75-2	55 - 100°C
Tensile strength		ISO 527-2	27 - 33 Mpa
Elongation		ISO 527-2	6 - 10 %
Flexural modulus		ISO 178	1350 MPa
Izod Impact Strength	at 23°C	ISO 180	5 - 25 kJ/m²
	at -20°C	ISO 180	0 - 6 kJ/m²

* Information extracted from TDS of the raw material

Properties of the final product				
Property	Thickness	Weight	Method	Result
Compression	2,4 mm	450 g/m²	Method external lab	60 N/cm²
	2,7 mm	600 g/m²	Method external lab	103 N/cm²
	3,4 mm	900 g/m²	Method external lab	136 N/cm²
	5,7 mm	1600 g/m²	Method external lab	176 N/cm²
Deformation at 1000N	2,4 mm	450 g/m²	Method external lab	< 30%
	2,7 mm	600 g/m²	Method external lab	< 30%
	3,4 mm	900 g/m²	Method external lab	< 20%
	5,7 mm	1600 g/m²	Method external lab	< 15%

Properties regarding the environment

Incomplete combustion produces carbon dioxide, carbon monoxide and other carbon, hydrogen bonds.

Complete combustion with air produces carbon dioxide and water.

The product is not biodegradable

The product can easily be recycled with other polypropylene products.