

ASTROBUBBLE TECHNICAL DATA SHEET

TECHNICAL CHARACTERISTICS *Small bubble – 2 Layers*

Technical characteristics	Standard and details of test method	Unit	Performance				
			SUPER LIGHT	LIGHT	STADARD	STRONG	
Structure		layers	no.	2	2	2	2
Bubble dimensions	PN-C-89258-1	thickness ±15%	mm	3,0	3,0	3,0	3,0
		diameter ±10%	mm	10,0	10,0	10,0	10,0
Length	ISO 4592	nominal	m	100	100	100	100
		lower / upper limit	%	±2,0	±2,0	±2,0	±2,0
Width	ISO 4592	nominal	mm	2000	2000	2000	2000
		lower / upper limit	%	±3,0	±3,0	±3,0	±3,0
Thickness	ISO 4591	nominal	µm	40	50	60	100
		lower / upper limit	%	-15,0 / +5,0	-15,0 / +5,0	-15,0 / +5,0	-15,0 / +5,0
Area Density	EN ISO 2286 ISO 4591	nominal	g/m²	37	46	55	92
		lower / upper limit	%	-15,0 / +5,0	-15,0 / +5,0	-15,0 / +5,0	-15,0 / +5,0
Tensile strength	EN ISO 527	longitudinal	MPa	> 5,5	6,1	6,5	7,2
		transversal		> 3,8	4,0	4,5	5,5
Tensile elongation	EN ISO 527	longitudinal	%	> 230	240	250	260
		transversal		> 135	140	150	160
Tear strength	EN ISO 6383-1	method A	N/mm	> 55	60	75	80
Water vapor transmission	EN ISO 15106-1		%	< 1,7	1,6	1,4	1,0
ANTISTATIC PRODUCTS - AS (DISSIPATIVE)							
Surface resistance	EN IEC 61340-2-3	Sonde 1	Ω	< -	10 ¹¹	10 ¹¹	10 ¹¹
				> -	10 ⁶	10 ⁶	10 ⁶
PRODUCTS WITH ADDITIONAL FOAM LAYER *							
Thickness of the layer	EN ISO 1923	nominal	mm	-	-	0,8 - 2,0	0,8 - 2,0
Maximum width	ISO 4592	nominal	mm	-	-	1500	1500
PRODUCTS WITH ADDITIONAL HDPE FOIL LAYER *							
Thickness of the layer	ISO 4591	nominal	µm	-	-	10	10
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	-	9,6	9,6
PRODUCTS WITH ADDITIONAL PETMET FOIL LAYER *							
Thickness of the layer	ISO 4591	nominal	µm	-	-	24	24
		lower / upper limit	%	-	-	±10	±10
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	-	28	28
		lower / upper limit	%	-	-	±10	±10
Maximum width	ISO 4592	nominal	mm	-	-	1200	1200
PRODUCTS WITH ADDITIONAL Vlieseline LAYER *							
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	-	25	25
		lower / upper limit	%	-	-	±10	±10
Maximum width	ISO 4592	nominal	mm	-	-	1500	1500
OTHER INFORMATION							
Atmospheres for conditioning	EN ISO 291 eq. ASTM D3575	min.24h; ±2°C	°C	23	23	23	23
		min. 24h; ±10%	%	50	50	50	50
Validity of properties **		months after production	mth	6	6	6	6
Colour	N-transparent; B-blue; R-red; AS-pink antistatic		cat.	N	N; B; R; AS	N; B; R; AS	N; B; R; AS
Print	N-none; R-request		cat.	R	R	R	R
Perforation	N-none; R-request		cat.	R	R	R	R

* Dimensions and tolerances are determined individually for additional layers.

** Only for proper storage and processing.

We are certified according to ISO 9001 / ISO 14001 / ISO 45001

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TECHNICAL CHARACTERISTICS *Small bubble – 3 Layers*

Technical characteristics	Standard and details of test method		Unit		Performance		
					LIGHT	STADARD	STRONG
Structure	layers		no.	3	3	3	
Bubble dimensions	PN-C-89258-1	thickness ±15%	mm	3,0	3,0	3,0	
		diameter ±10%	mm	10,0	10,0	10,0	
Length	ISO 4592	nominal	m	100	100	100	
		lower / upper limit	%	±2,0	±2,0	±2,0	
Width	ISO 4592	nominal	mm	2000	2000	2000	
		lower / upper limit	%	±3,0	±3,0	±3,0	
Thickness	ISO 4591	nominal	µm	70	80	120	
		lower / upper limit	%	-15,0 / +5,0	-15,0 / +5,0	-15,0 / +5,0	
Area Density	EN ISO 2286 ISO 4591	nominal	g/m²	64	74	110	
		lower / upper limit	%	-15,0 / +5,0	-15,0 / +5,0	-15,0 / +5,0	
Tensile strength	EN ISO 527	longitudinal	MPa	> 7,8	8,5	10,0	
		transversal		> 5,1	6,2	8,0	
Tensile elongation	EN ISO 527	longitudinal	%	> 240	250	280	
		transversal		> 140	160	170	
Tear strength	EN ISO 6383-1	method A	N/mm	> 70	85	100	
Water vapor transmission	EN ISO 15106-1		%	< 1,3	1,2	0,9	
ANTISTATIC PRODUCTS - AS (DISSIPATIVE)							
Surface resistance	EN IEC 61340-2-3	Sonde 1	Ω	< 10 ¹¹	10 ¹¹	10 ¹¹	
				> 10 ⁶	10 ⁶	10 ⁶	
PRODUCTS WITH ADDITIONAL FOAM LAYER *							
Thickness of the layer	EN ISO 1923	nominal	mm	-	0,8 - 2,0	0,8 - 2,0	
Maximum width	ISO 4592	nominal	mm	-	1500	1500	
PRODUCTS WITH ADDITIONAL HDPE FOIL LAYER *							
Thickness of the layer	ISO 4591	nominal	µm	-	10	10	
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	9,6	9,6	
PRODUCTS WITH ADDITIONAL PETMET FOIL LAYER *							
Thickness of the layer	ISO 4591	nominal	µm	-	24	24	
		lower / upper limit	%	-	±10	±10	
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	28	28	
		lower / upper limit	%	-	±10	±10	
Maximum width	ISO 4592	nominal	mm	-	1200	1200	
PRODUCTS WITH ADDITIONAL VLIESELINE LAYER *							
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	25	25	
		lower / upper limit	%	-	±10	±10	
Maximum width	ISO 4592	nominal	mm	-	1500	1500	
OTHER INFORMATION							
Atmospheres for conditioning	EN ISO 291 eq. ASTM D3575	min.24h; ±2°C	°C	23	23	23	
		min. 24h; ±10%	%	50	50	50	
Validity of properties **	months after production		mth	6	6	6	
Colour	N-transparent; B-blue; R-red; AS-pink antistatic		cat.	N; B; R; AS	N; B; R; AS	N; B; R; AS	
Print	N-none; R-request		cat.	R	R	R	
Perforation	N-none; R-request		cat.	R	R	R	

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Jiffy Packaging Sp. z o.o. is entered in the Register of Companies maintained by District Court in Gliwice,
X Commercial Division of the National Court Register under no. 0000074987;
Company Capital: 38 378 000 PLN; TAX ID PL 631-103-49-61

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ASTROBUBBLE TECHNICAL DATA SHEET

TECHNICAL CHARACTERISTICS Large bubble – 2 Layers

Technical characteristics	Standard and details of test method	Unit	Performance		
			LIGHT PLUS	STANDARD PLUS	STRONG PLUS
Structure	layers	no.	2	2	2
Bubble dimensions	PN-C-89258-1	thickness ±15%	mm	10,0	10,0
		diameter ±10%	mm	30,0	30,0
Length	ISO 4592	nominal	m	50	50
		lower / upper limit	%	±2,0	±2,0
Width	ISO 4592	nominal	mm	1800	1800
		lower / upper limit	%	±3,0	±3,0
Thickness	ISO 4591	nominal	µm	75	100
		lower / upper limit	%	-15,0 / +5,0	-15,0 / +5,0
Area Density	EN ISO 2286 ISO 4591	nominal	g/m²	69	92
		lower / upper limit	%	-15,0 / +5,0	-15,0 / +5,0
Tensile strength	EN ISO 527	longitudinal	MPa	> 7,8	9,0
		transversal		> 5,1	6,4
Tensile elongation	EN ISO 527	longitudinal	%	> 240	260
		transversal		> 140	160
Tear strength	EN ISO 6383-1	method A	N/mm	> 65	75
Water vapor transmission	EN ISO 15106-1		%	< 1,3	1,0
ANTISTATIC PRODUCTS - AS (DISSIPATIVE)					
Surface resistance	EN IEC 61340-2-3	Sonde 1	Ω	< 10 ¹¹	10 ¹¹
				> 10 ⁶	10 ⁶
PRODUCTS WITH ADDITIONAL FOAM LAYER *					
Thickness of the layer	EN ISO 1923	nominal	mm	-	-
Maximum width	ISO 4592	nominal	mm	-	-
PRODUCTS WITH ADDITIONAL HDPE FOIL LAYER *					
Thickness of the layer	ISO 4591	nominal	µm	-	-
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	-
PRODUCTS WITH ADDITIONAL PETMET FOIL LAYER *					
Thickness of the layer	ISO 4591	nominal	µm	-	24
		lower / upper limit	%	-	±10
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	28
		lower / upper limit	%	-	±10
Maximum width	ISO 4592	nominal	mm	-	1200
PRODUCTS WITH ADDITIONAL VLIESELINE LAYER *					
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	-
		lower / upper limit	%	-	-
Maximum width	ISO 4592	nominal	mm	-	-
OTHER INFORMATION					
Atmospheres for conditioning	EN ISO 291 eq. ASTM D3575	min.24h; ±2°C	°C	23	23
		min. 24h; ±10%	%	50	50
Validity of properties **		months after production	mth	6	6
Colour		N-transparent; B-blue; R-red; AS-pink antistatic	cat.	N; B; R; AS	N; B; R; AS
Print		N-none; R-request	cat.	R	R
Perforation		N-none; R-request	cat.	N	N

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ASTROBUBBLE TECHNICAL DATA SHEET

TECHNICAL CHARACTERISTICS Large bubble – 3 Layers

Technical characteristics	Standard and details of test method		Unit	Performance		
				LIGHT PLUS	STANDARD PLUS	GREENHOUSE
Structure	layers		no.	3	3	3
Bubble dimensions	PN-C-89258-1	thickness ±15%	mm	10,0	10,0	10,0
		diameter ±10%	mm	30,0	30,0	30,0
Length	ISO 4592	nominal	m	50	50	50
		lower / upper limit	%	±2,0	±2,0	±2,0
Width	ISO 4592	nominal	mm	1800	1800	1800
		lower / upper limit	%	±3,0	±3,0	±3,0
Thickness	ISO 4591	nominal	µm	95	120	120
		lower / upper limit	%	-15,0 / +5,0	-15,0 / +5,0	-15,0 / +5,0
Area Density	EN ISO 2286 ISO 4591	nominal	g/m²	87	110	110
		lower / upper limit	%	-15,0 / +5,0	-15,0 / +5,0	-15,0 / +5,0
Tensile strength	EN ISO 527	longitudinal	MPa	> 9,0	10,5	9,0
		transversal		> 6,4	8,2	6,4
Tensile elongation	EN ISO 527	longitudinal	%	> 260	285	260
		transversal		> 160	180	160
Tear strength	EN ISO 6383-1	method A	N/mm	> 70	85	90
Water vapor transmission	EN ISO 15106-1		%	< 1,0	0,9	0,9
ANTISTATIC PRODUCTS - AS (DISSIPATIVE)						
Surface resistance	EN IEC 61340-2-3	Sonde 1	Ω	< 10 ¹¹	10 ¹¹	-
				> 10 ⁶	10 ⁶	-
PRODUCTS WITH ADDITIONAL FOAM LAYER *						
Thickness of the layer	EN ISO 1923	nominal	mm	-	-	-
Maximum width	ISO 4592	nominal	mm	-	-	-
PRODUCTS WITH ADDITIONAL HDPE FOIL LAYER *						
Thickness of the layer	ISO 4591	nominal	µm	-	-	-
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	-	-
PRODUCTS WITH ADDITIONAL PETMET FOIL LAYER *						
Thickness of the layer	ISO 4591	nominal	µm	-	24	-
		lower / upper limit	%	-	±10	-
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	28	-
		lower / upper limit	%	-	±10	-
Maximum width	ISO 4592	nominal	mm	-	1200	-
PRODUCTS WITH ADDITIONAL VLIESELINE LAYER *						
Density of the layer	EN ISO 2286	nominal from thickness	g/m²	-	-	-
		lower / upper limit	%	-	-	-
Maximum width	ISO 4592	nominal	mm	-	-	-
OTHER INFORMATION						
Atmospheres for conditioning	EN ISO 291 eq. ASTM D3575	min.24h; ±2°C	°C	23	23	23
		min. 24h; ±10%	%	50	50	50
Validity of properties **	months after production		mth	6	6	6 ***
Colour	N-transparent; B-blue; R-red; AS-pink antistatic		cat.	N; B; R; AS	N; B; R; AS	N; B
Print	N-none; R-request		cat.	R	R	R
Perforation	N-none; R-request		cat.	N	N	N

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*** UV resistance is 4 seasons for the climate of Central Europe.

The product can be 100% recycled.



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