

## POLYLAM® TECHNICAL DATA SHEET

### TECHNICAL CHARACTERISTICS

Technical characteristics	Standard and details of test method	Unit	Performance					
			ULD	LD	MD	HD		
Dimensions - length	EN ISO 1923	nominal 23°C; HD:50%	mm	2000	2000	2000	2000	
		lower / upper limit 23°C; HD:50%	mm	- 0 / +50	- 0 / +50	- 0 / +50	- 0 / +50	
Dimensions - width	EN ISO 1923	nominal 23°C; HD:50%	mm	1200	1200	1200	1200	
		lower / upper limit 23°C; HD:50%	mm	- 0 / +20	- 0 / +20	- 0 / +20	- 0 / +20	
Density	EN ISO 845 eq. ASTM D3575 W	nominal 23°C; HD:50%	kg/m <sup>3</sup>	18	23	28	35	
		lower / upper limit 23°C; HD:50%	%	-10 / +10	-10 / +10	-10 / +10	-10 / +10	
Compression stress	EN ISO 3386-1 eq. ASTM D-3575 D DIN 53577	1 impression 10% 23°C; HD:50%	kPa	>	10	15	23	30
		1 impression 25% 23°C; HD:50%		>	25	36	45	55
		1 impression 50% 23°C; HD:50%		>	60	95	110	128
		1 impression 70% 23°C; HD:50%		>	150	180	210	250
		4 impression 25% 23°C; HD:50%		>	10	15	26	28
		4 impression 50% 23°C; HD:50%		>	50	60	75	95
		4 impression 70% 23°C; HD:50%		>	140	150	180	210
Tensile strength	EN ISO 1798 eq. ASTM D3575 T	Extrusion direction 23°C; HD:50%	kPa	>	150	165	180	200
		Cross direction 23°C; HD:50%		>	100	120	130	145
Tensile elongation	EN ISO 1798 eq. ASTM D3575 T	Extrusion direction 23°C; HD:50%	%	>	80	80	100	100
		Cross direction 23°C; HD:50%		>	60	60	80	80
Tear strength	EN ISO 8067 eq. ASTM D3575 G	method A 23°C; HD:50%	N/cm	>	4	6	9	10
Compression set	EN ISO 1856 eq. ASTM D3575 B	22h; 50%, 2h; 23°C; HD:50%	%	<	35	25	25	25
		22h, 50%, 24h; 23°C; HD:50%		<	25	20	20	20
Compressive creep	ISO 7850 eq. ASTM D3575 BB	* 168h; 23°C; HD:50%	%	<	5	5	5	5
		* 1000h; 23°C; HD:50%		<	10	10	10	10
Dimensional stability	ISO 2796 eq. ASTM D3575 S	24h; 70°C	%	<	9,0	8,0	6,0	5,0
		48h; 23°C		>	-1,3	-1,3	-1,2	-1,0
Thermal conductivity	ISO 8302 eq. ASTM D3575 V DIN 52612; NBN 62-201	10°C	W/mK	<	0,059	0,057	0,055	0,053
Water absorption	ISO 2896 eq. ASTM D2842	24h; 23°C	Vol. %	<	2,0	1,2	1,1	1
		168h; 23°C		<	4,0	1,8	1,7	1,5
		672h; 23°C		<	5,5	4,5	3,3	3

\* ULD-0,75psi LD-1psi MD-1,25psi HD-2psi

### Compliance with factory standard ZN 101

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### TECHNICAL CHARACTERISTICS - ADDITIONAL

Technical characteristics	Standard and details of test method	Unit	Performance				
			ULD	LD	MD	HD	
<b>ANTISTATIC PRODUCTS - AS (DISSIPATIVE)</b>							
Surface resistance	EN IEC 61340-2-3 Sonde 1 23°C; HD:50%	$\Omega$	<	-	10 <sup>11</sup>	10 <sup>11</sup>	10 <sup>11</sup>
			>	-	10 <sup>4</sup>	10 <sup>4</sup>	10 <sup>4</sup>
Static Decay	FTMS 101-4046/ EIA STD 541-1988 23°C; HD:50%	sec	<	-	2	2	2
<b>PRODUCTS WITH ADDITIONAL MDL FOAM LAYER</b>							
Thickness of the layer	EN ISO 1923 nominal 23°C; HD:50%	mm		3	3	3	3
				lower / upper limit 23°C; HD:50%	%	-10/10	-10/10
Density of the layer	EN ISO 845 nominal 23°C; HD:50%	kg/m <sup>3</sup>		70	70	70	70
				lower / upper limit 23°C; HD:50%	%	-10/10	-10/10
<b>PRODUCTS WITH ADDITIONAL LDPE FOIL LAYER **</b>							
Thickness of the layer	ISO 4591 nominal 23°C; HD:50%	$\mu\text{m}$		450	450	450	450
				lower / upper limit 23°C; HD:50%	%	-15/15	-15/15
Density of the layer	EN ISO 2286 nominal from thickness 23°C; HD:50%	g/m <sup>2</sup>		920	920	920	920
				lower / upper limit 23°C; HD:50%	%	-10/10	-10/10
<b>PRODUCTS WITH ADDITIONAL PETMET FOIL LAYER **</b>							
Thickness of the layer	ISO 4591 nominal 23°C; HD:50%	$\mu\text{m}$		35	35	35	35
				lower / upper limit 23°C; HD:50%	%	-15/15	-15/15
Density of the layer	EN ISO 2286 nominal from thickness 23°C; HD:50%	g/m <sup>2</sup>		32	32	32	32
				lower / upper limit 23°C; HD:50%	%	-10/10	-10/10
<b>PRODUCTS WITH ADDITIONAL ADHESIVE FILM LAYER **</b>							
Adhesion strength	EN 1939 eq. ASTM D3330 Method 2; foam-paper 23°C; HD:50%	N/cm	>	4	4	4	4
				Method 2; foam-foam 23°C; HD:50%	N/cm	>	4
<b>PRODUCTS WITH ADDITIONAL VLIESELINE LAYER **</b>							
Density of the layer	EN ISO 2286 nominal from thickness 23°C; HD:50%	g/m <sup>2</sup>		25	25	25	25
				lower / upper limit 23°C; HD:50%	%	-10/10	-10/10
<b>OTHER INFORMATION</b>							
Atmospheres for conditioning	EN ISO 291 eq. ASTM D3575 temperature II class min.24h; $\pm 2^\circ\text{C}$	$^\circ\text{C}$		23	23	23	23
				humidity II class min. 24h; $\pm 10\%$	%	50	50
Validity of properties***	months after production 23°C; HD:50%	mth		12	12	12	12
Colour	W-white; D-black; B-blue; Y-yellow; G-green; AS-pink	cat.		W	W,D,AS	W,D,AS	W,D,AS

\*\* Dimensions are determined individually for additional layers.

\*\*\* Only for proper storage and processing.

Validity of antistatic properties – 24 months from date of production.

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### DIMENSION TOLERANCES

N	LTL / UTL
mm	mm
20	-0 / +2
25	-0 / +2
30	-0 / +2
35	-0 / +2
40	-0 / +2
45	-0 / +3
50	-0 / +3
55	-0 / +3
60	-0 / +3
65	-0 / +3
70	-0 / +4
75	-0 / +4
80	-0 / +4
85	-0 / +4
90	-0 / +5
95	-0 / +5
100	-0 / +5

*N-nominal; LTL-lower tolerance limit; UTL-upper tolerance limit*

*The product can be 100% recycled.*



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