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SENSALAM TECHNICAL DATA SHEET

TECHNICAL CHARACTERISTICS

Technical characteristics	Standard and details of test method			Unit		ULD	LD	MD	HD	UHD	HDS
						Performance					
Dimensions - length	EN ISO 1923	nominal	23°C; HD:50%	mm		2000					
		lower / upper limit	23°C; HD:50%	%		0,0 / 2,5					
		lower - upper limit	23°C; HD:50%	mm		2000-2050					
Dimensions - width	EN ISO 1923	nominal	23°C; HD:50%	mm		1200					
		lower / upper limit	23°C; HD:50%	%		0,0 / 1,7					
		lower - upper limit	23°C; HD:50%	mm		1200-1220					
Density	EN ISO 845 eq. ASTM D3575 W	nominal	23°C; HD:50%	kg/m^3		18	23	28	35	65	100
		lower / upper limit	23°C; HD:50%	%		-10 / 10	-10 / 10	-10 / 10	-10 / 10	-10 / 10	-10 / 10
		lower - upper limit	23°C; HD:50%	kg/m^3		16,2-19,8	20,7-25,3	25,2-30,8	31,5-38,5	58,5-71,5	90,0-110,0
Compression stress	EN ISO 3386-1 eq. ASTM D-3575 D DIN 53577	1 impression 10%	23°C; HD:50%	kPa	>	10	17	22	31	43	74
		1 impression 25%	23°C; HD:50%		>	22	37	47	58	84	131
		1 impression 50%	23°C; HD:50%		>	62	96	114	126	160	237
		1 impression 70%	23°C; HD:50%		>	158	223	267	286	325	515
		4 impression 25%	23°C; HD:50%		>	9	16	28	32	60	97
		4 impression 50%	23°C; HD:50%		>	47	58	89	95	138	194
		4 impression 70%	23°C; HD:50%		>	141	154	228	250	320	483
Tensile strength	EN ISO 1798 eq. ASTM D3575 T	Extrusion direction	23°C; HD:50%	kPa	>	150	165	180	200	360	480
		Cross direction	23°C; HD:50%		>	100	120	130	145	280	320
Tensile elongation	EN ISO 1798 eq. ASTM D3575 T	Extrusion direction	23°C; HD:50%	%	>	15	20	35	38	45	42
		Cross direction	23°C; HD:50%		>	10	12	18	21	35	30
Tear strength	EN ISO 8067 eq. ASTM D3575 G	method A	23°C; HD:50%	N/cm	>	4	6	9	10	20	30
Compression set	EN ISO 1856 eq. ASTM D3575 B	22h; 50%, 2h;	23°C; HD:50%	%	<	35	25	25	25	25	25
		22h, 50%, 24h;	23°C; HD:50%		<	25	20	20	20	20	20
Compressive creep	ISO 7850 eq. ASTM D3575 BB	* 168h;	23°C; HD:50%	%	<	-	5	5	5	-	-
		* 1000h;	23°C; HD:50%		<	-	10	10	10	-	-
Dimensional stability	ISO 2796 eq. ASTM D3575 S	24h; 70°C		%	<	9,0	8,0	6,0	5,0	4,7	4,5
		48h; 23°C			>	-1,3	-1,3	-1,2	-1,0	-0,7	-0,5
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	0,050	0,049
Water absorption	ISO 2896 eq.ASTM D2842	24h; 23°C		Vol. %	<	2,0	1,2	1,1	1	0,9	0,8
		168h; 23°C			<	4,0	1,8	1,7	1,5	1,4	1,3
		672h; 23°C			<	5,5	4,5	3,3	3	2,7	2,0
Accelerated ageing	EN ISO 2440 eq. ASTM D3574 K	4 impression 70%	72h, 70°C	%	<	32	30	25	20	15	10
		Tensile strength	72h, 70°C		<	23	21	18	15	12	8
		Tensile elongation	72h, 70°C		<	13	12	10	8	6	4
		Tear strength	72h, 70°C		<	16	15	12	10	8	6
	ANTISTATIC PRODUCTS - AS										
Surface resistance	EN IEC 61340-2-3	Sonde 1	23°C; HD:50%	Ω	<	-	10^{11}	10^{11}	10^{11}	10^{11}	-
					>	-	10^4	10^4	10^4	10^4	-
Surface resistivity	EN IEC 61340-2-3 eq. ASTM D-257	Sonde 1	23°C; HD:50%	Ω/m²	<	-	10^{12}	10^{12}	10^{12}	10^{12}	-
					>	-	10^5	10^5	10^5	10^5	-
Static Decay	FTMS 101-4046/ EIA STD 541-1988		23°C; HD:50%	sec	<	-	2	2	2	2	-
	PRODUCTS WITH ADDITIONAL FOAM LAYER OF DIFFERENT DENSITY										
Thickness of the layer	EN ISO 1923	nominal	23°C; HD:50%	mm		3	3	3	3	3	-
		lower / upper limit	23°C; HD:50%	%		-10/10	-10/10	-10/10	-10/10	-10/10	-
Density of the layer	EN ISO 845 eq. ASTM D3575 W	nominal	23°C; HD:50%	kg/m^3		70	70	70	70	100	-
		lower / upper limit	23°C; HD:50%	%		-10/10	-10/10	-10/10	-10/10	-10/10	-
	PRODUCTS WITH ADDITIONAL LDPE FOIL LAYER										
Thickness of the layer	ISO 4593	nominal	23°C; HD:50%	µm		450	450	450	450	450	450
		lower / upper limit	23°C; HD:50%	%		-15/15	-15/15	-15/15	-15/15	-15/15	-15/15
Density of the layer	EN ISO 2286	nominal from thickness	23°C; HD:50%	kg/m^2		920	920	920	920	920	920
		lower / upper limit	23°C; HD:50%	%		-10/10	-10/10	-10/10	-10/10	-10/10	-10/10
	PRODUCTS WITH ADDITIONAL PETMET FOIL LAYER										
Thickness of the layer	ISO 4593	nominal	23°C; HD:50%	µm		35	35	35	35	35	35
		lower / upper limit	23°C; HD:50%	%		-15/15	-15/15	-15/15	-15/15	-15/15	-15/15
Density of the layer	EN ISO 2286	nominal from thickness	23°C; HD:50%	kg/m^2		32	32	32	32	32	32
		lower / upper limit	23°C; HD:50%	%		-10/10	-10/10	-10/10	-10/10	-10/10	-10/10
	PRODUCTS WITH ADDITIONAL ADHESIVE FILM LAYER										
Adhesion strength	EN 1939 eq. ASTM D3330	Method 2; foam-paper	23°C; HD:50%	N/cm	>	4	4	4	4	4	4
		Method 2; foam-foam	23°C; HD:50%	N/cm	>	4	4	4	4	4	4
	PRODUCTS WITH ADDITIONAL VLIESELINE LAYER										
Thickness of the layer	ISO 4593	nominal	23°C; HD:50%	µm		150	150	150	150	150	150
		lower / upper limit	23°C; HD:50%	%		-15/15	-15/15	-15/15	-15/15	-15/15	-15/15
Density of the layer	EN ISO 2286	nominal from thickness	23°C; HD:50%	kg/m^2		25	25	25	25	25	25
		lower / upper limit	23°C; HD:50%	%		-10/10	-10/10	-10/10	-10/10	-10/10	-10/10
	OTHER INFORMATION										
Atmospheres for conditioning	EN ISO 291 eq. ASTM D3575	temperature II class	min.24h; ±2°C	°C		23	23	23	23	23	23
		humidity II class	min. 24h; ±10%	%		50	50	50	50	50	50
Validity of properties**		months after production	23°C; HD:50%	mth		12	12	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	W,D,AS	W
Print	N-none; R-request			cat.		R	R	R	R	R	R

**Only for proper storage and processing.

* LD-1psi MD-1,25psi HD-2psi UHD-5psi HDS-10psi