
SITAB P.E. SPA

INDEX

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SITAB P.E.

INNOVATION AND TECHNOLOGY

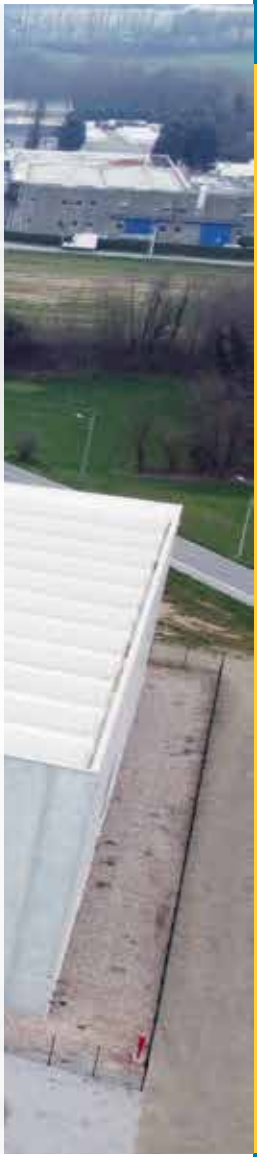
SITAB Poliuretani Espansi spa produces a wide range of expanded polyurethane foam with different physical-mechanical characteristics.

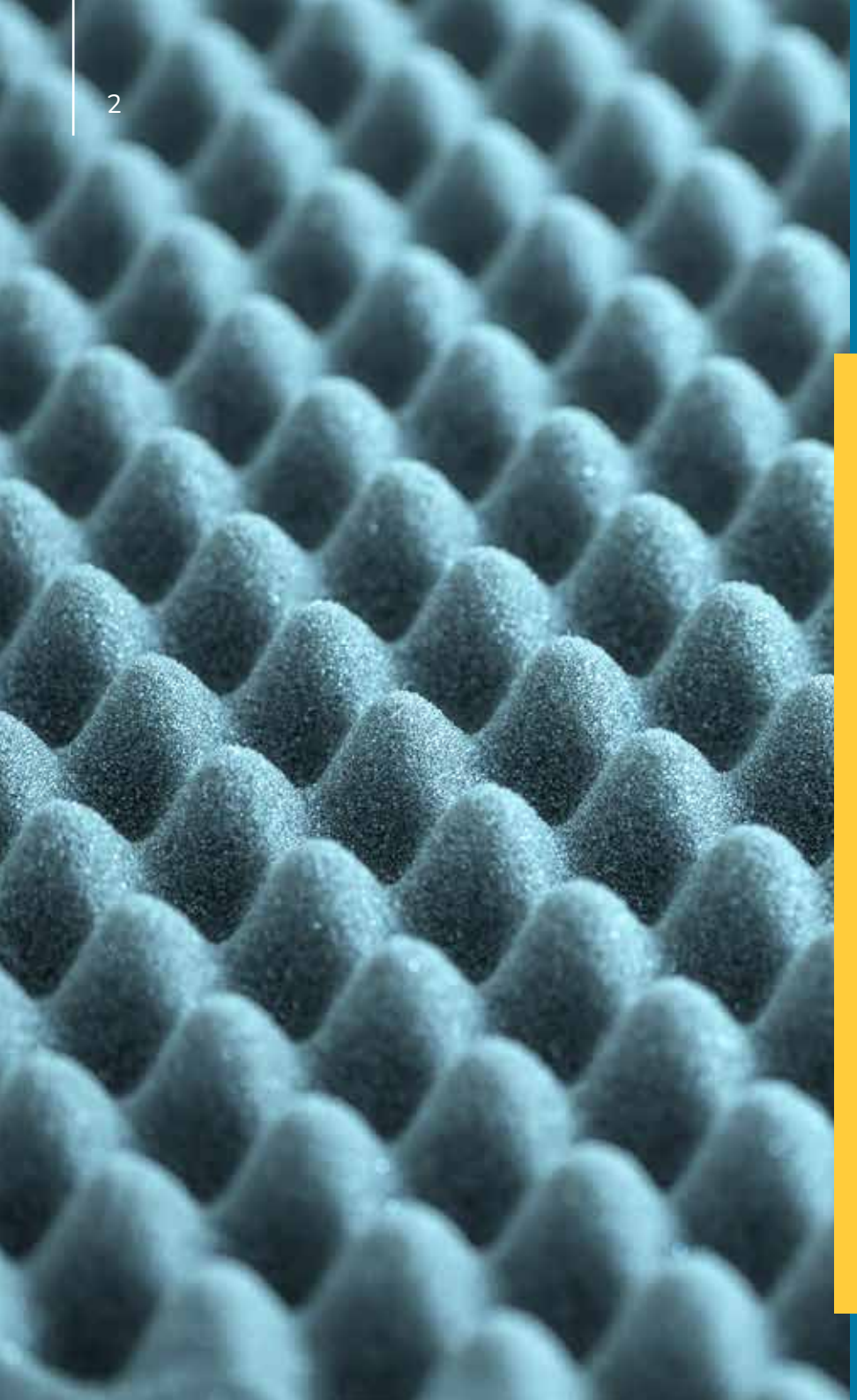
The specific formulations are the result of SITAB's industrial experience built up in more than 40 years of activity in the expanded polyurethane foams market. Our constant commitment to technological innovation, our know-how of the sector and high level customer services are the key strengths that allow SITAB P.E. to face the challenges of the polyurethane market.

EXCELLENCE MADE IN ITALY

SITAB P.E.'s production process is state-of-the-art in its field: two distinct production technologies provide a proper response to rising demands for flexibility, oriented to customized products.

SITAB P.E. views excellence as the maximum expression of Italian manufacturing skills. This philosophy has always underpinned the daily activities of the proprietors and workforce, with the constant goal of elevating and refining the quality of products and each stage of the production process.





CERTIFICATIONS

Attention, awareness and responsibility are at the basis of the whole of SITAB P.E.'s production.

From this commitment derives SITAB P.E.'s engagement in obtaining a number of major international certifications that ensure complete suitability and reliability for each single product.

SITAB

CertiPUR®

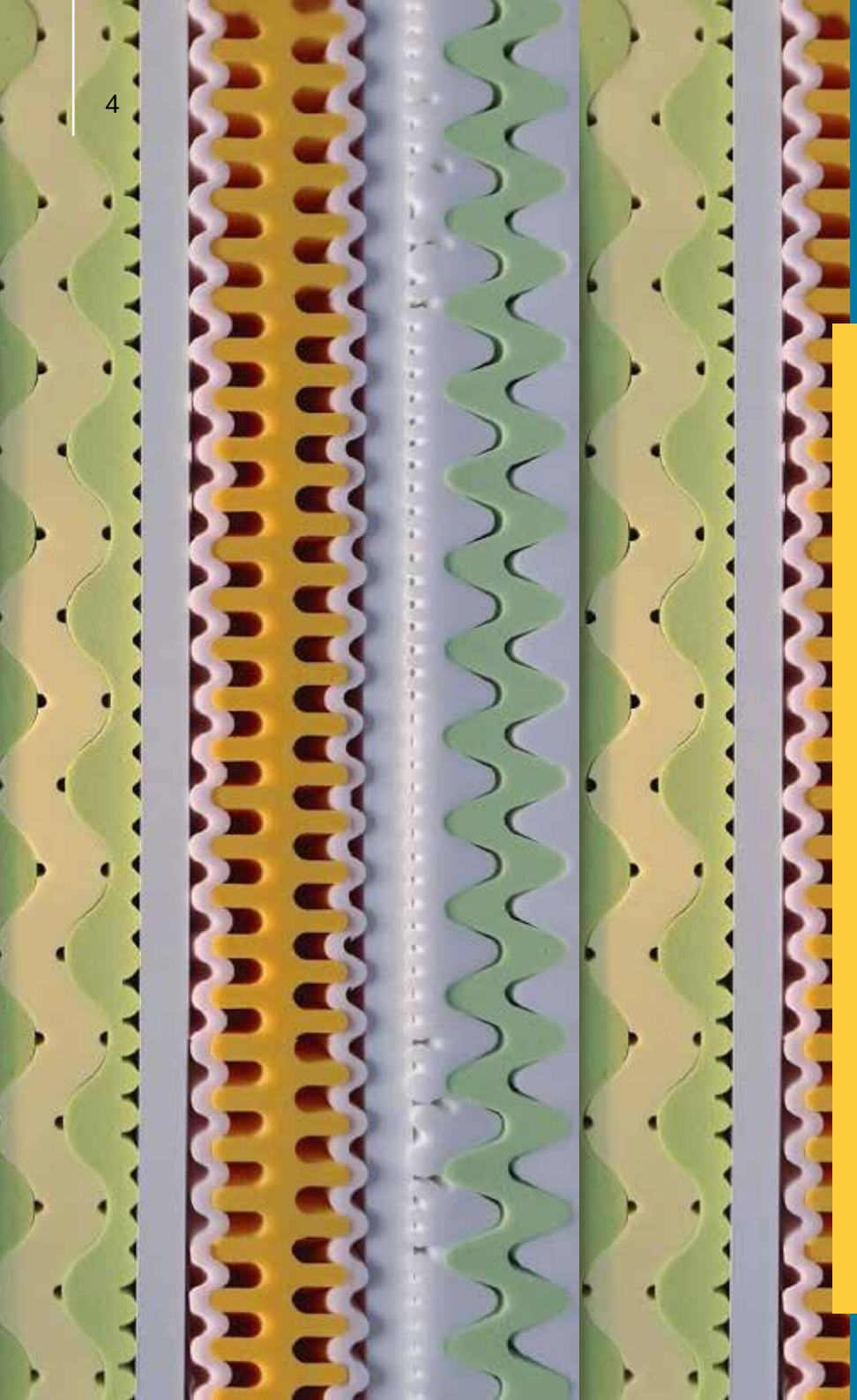
Certipur® is a European program designed to raise Safety, Health and Environmental standards in the polyurethane foams sector: the program is based on criteria that require participating companies, like SITAB P.E., to comply with restrictions concerning substances that may be harmful for health and the environment.

Certipur® is the only existing mark exclusively applicable to polyurethane utilised in furniture, bedding and associated markets.

OEKO-TEX®

The Oeko-Tex® tests for harmful substances guarantee the absence of health risks: these tests have become a uniform and scientifically founded evaluation standard for the human and ecological safety of polyurethane products.

The Oeko-Tex® Standard 100 Class II certificate shows that SITAB P.E. products have been successfully tested and that they comply with the requirement of harmlessness for human health in reference to Annex XVII of the European REACH regulation and rules in force.



PRODUCTS

SITAB

Warnings

The data reported in the “technical features/technical data sheets” refer to samples obtained in the perpendicular plane to the growth direction of the product during the reaction phase and not near the external surfaces. High resilience materials such as HR and AT must be previously subjected to mechanical treatments to generate cell breakage (mangling).

We recommend to obtain the desired details so that during the final use phase they are stressed in a parallel direction to the growth’s direction.
Data and information contained in this document and in the each technical sheets are based on the knowledge available on the issue’s date or subsequent revisions. SITAB PE reserves the right to modify the data herein reported at any time.

SITAB PE does not guarantee the sufficiency of the recommendations/warnings contained in this document and in each technical data sheet. Furthermore it’s not excluded that further measures may be required in particular or exceptional circumstances.

In case of compressed materials it will be necessary a waiting time of at least 24 hours from the material decompression. The material must be kept compressed for the shortest possible time, ideally just for the time necessary for transport. In the 24 hours following decompression (or at least for a few hours) it is necessary that the blocks/plates are not subjected to pressure from any direction, such as load compression, blocks / plates stacked on one another or pressed against the wall. For viscoelastic materials it is necessary to consider their thermo sensitivity: the ideal temperatures should be higher than 15 degrees. It is also necessary that the support base is sufficiently smooth to allow the material to “slip”, thus facilitating the return.

FIRE RESISTANCE CERTIFICATES

- **A** Technical Bulletin 117 - 2013 Section 3 (Californian Test)
- **C** Ignitability of upholstered composites for seating BS 5852-2:1982 (Crib 5)
- **D** FAR 25.853 (Federal Aviation Regulations)
- **E** UNI 9175 (CSE RF 4/83 CLASSE 1 IM) con tessuti idonei
- **F** Classement M4
- **G** MVSS 302
- **H** ABD 0031 - Airbus Industrie (ATS 1000.01 Airbus Test Specification)
- **I** UL 94 HF-1 (Horizontal Burning Foamed Material Test
- **L** UNI 10707: 2003 NF F 16-101 (NF X 70-100: 2006)
- **M** IMO 2010 - FTP code

SELF ESTINGUISHING PRODUCTS RULES

CATAS Testing Certification Research MEMBER

SITAB P.E. fire-resistant products have specially predetermined fire reaction characteristics, according to national or international standards, to meet specific use requirements. Each certification of reaction to fire relevant to any product can be downloaded directly from the appropriate section of our website / www.sitabpe.com

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NORM	PRODUCT	Compression Load Deflection 40% (kpa)
UNI 9175 (CSE RF 4/83 CLASSE 1 IM) con tessuti idonei	27 CM*	3,7
	30 CM*	4,1
	30 AU*	3,7
	40 RC*	4,6
	30 HR*	2,9
	35 CMHR*	3,1
	55 ADAU*	2,9
UNI 10707: 2003 F 16-101 (NF X 70-100: 2006)	30 HR*	2,9
IMO 2010 FTP code	27 CM*	3,7
	30 CM*	4,1
	40 RC*	4,6
ABD 0031 Airbus Industrie: (Fire - Smoke - Toxicity)	30 HR*	2,9
Classement M4	30 HR*	2,9
	27 CM*	3,7
	30 CM*	4,1
	35 CMHR*	3,1
	40 RC*	4,6
BS 5852 Pt 2: 1982 Crib 5	27 CM*	3,7
	30 CM*	4,1
	30 AU*	3,7
	40 RC*	4,6
	35 AT*	2
	35 CMHR*	3,1
	40 CMHR*	3,4

NORM	PRODUCT	Compression Load Deflection 40% (kpa)
Technical Bulletin 117 2013 Section 3 (Californian Test)	27 CM*	3,7
	30 CM*	4,1
	40 RC*	4,6
	30 HR*	2,9
	35 AT*	2
	35 CMHR*	3,1
	40 CMHR*	3,4
	25 P	4,5
	25 PH	5,9
	30 E	4
	30 P	5,2
	35 P	5,5
	35 EM	4,1
	25 EO	3,5
	40 EM	4,2
	30 PH	7
	40 PH	8
	40 P	8
	70 PH	17
	35 AT	2,2
	35 HRB	3,7
	40 HRB	3,7
	21 M	1,8
MVSS 302	30 AU*	3,7
	40 RC*	4,6
FAR 25.853 (Federal Aviation Regulations)	30 HR*	2,9
UL 94 HF-1 (Horizontal Burning Foamed Material Test)	27 CM*	3,7
	30 AU*	3,7

* Foams containing self-extinguishing substances

STANDARD

Range of classic products from which all the other types are derived, which find many uses in various production fields.
These products are characterized by their high firmness.

FIRE RESISTANCE CERTIFICATES

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- **M** IMO 2010 - FTP code

SITAB

STANDARD

Technical features

			25 P 4,1	30 P 5,2	35 P 5,7	40 P 6,0
DENSITY UNI EN ISO 845	3kg/m 3 ± 5%		25	30	35	40
COMPRESSION LOAD DEFLECTION UNI EN ISO 3386	kpa ± 15%	40%	4,1	5,2	5,7	6,0
IDENTATION LOAD DEFLECTION UNI EN ISO 2439	Newton ± 15%	25%	140	160	182	195
		65%	350	400	455	430
ELONGATION AT BREAK UNI EN ISO 1798	% min		168	116	120	116
LOAD AT BREAK (TRACTION) UNI EN ISO 1798	kpa min		151	150	153	158
RESILIENCE UNI EN ISO 8307	% (± 10%)		36	35	38	31
DYNAMIC FATIGUE UNI EN ISO 3385	% (± 10%)		26	26	24	25
COMPRESSION SET UNI EN ISO 1856/A	% max	50%	4	4	2	2
		75%	6	6	2	4
FIRE TESTS			A	A	A	A
COLOR			◯	◯	◯	◯
BLOCKS WIDTH IN CM			215	215	215	215

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NON DEFORMABLE ELASTIC

Wide range of non-deformable elastic polyurethane products, used for the most stressed parts of mattresses and upholstery. The specific characteristic of our products is their ability to recover their shape even following heavy-duty utilization conditions, as shown by the excellent results of fully documented fatigue and durability tests.

SITAB

NON DEFORMABLE ELASTIC

Technical features

			23 EM 3,3	25 EMS 3,1	25 EM 3,6	26 EM 3,9	28 EM 3,9	30 EM 3,7	30 E 4,0	32 EM 4,0	32 EMP 4,1	35 EM 4,3	35 EMT 4,1	38 SS 2,9	40 EM 3,9
DENSITY UNI EN ISO 845	3kg/m 3 ± 5%		23	25	25	26	28	29	30	32	32	35	35	38	40
COMPRESSION LOAD DEFLECTION UNI EN ISO 3386	kpa ± 15%	40%	3,3	3,1	3,6	3,9	3,9	3,7	4,0	4,0	4,1	4,3	4,1	2,9	3,9
IDENTATION LOAD DEFLECTION UNI EN ISO 2439	Newton ± 15%	25%	117	113	115	129	130	125	136	130	141	142	149	90	120
		65%	267	244	275	294	300	282	324	300	305	322	330	210	255
ELONGATION AT BREAK UNI EN ISO 1798	% min		180	219	235	160	206	170	174	200	151	111		125	132
LOAD AT BREAK (TRACTION) UNI EN ISO 1798	kpa min		140	155	129	120	136	122	118	130	106	100		100	97
RESILIENCE UNI EN ISO 8307	% (± 10%)		42	42	49	45	45	49	39	51	41	51	47	55	48
DYNAMIC FATIGUE UNI EN ISO 3385	% max		25	27	25	25	20	21	22	25	21	21	23	13	16
COMPRESSION SET UNI EN ISO 1856/A	% max	50%	2	2	2	2	2	1	2	2	2	2	3	2	2
		75%	3	3	2	3	2	2	4	3	4	4	3	2	4
FIRE TESTS					A		A		A			A			A
COLOR															
BLOCKS WIDTH IN CM			193 203	203	193 203	193 203	203	203	215	215	203	215	203	203	215

FIRE RESISTANCE CERTIFICATES

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FIRE RESISTANT STANDARD

Range of products that brilliantly pass the various fire resistance tests, to fully meet all specific needs. They differ in density, firmness and elasticity.

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FIRE RESISTANT STANDARD

Technical features

			27 CM 4,0	30 CM 4,3	30 AU 4,0	40 RC 5,2
DENSITY UNI EN ISO 845	3kg/m 3 ± 5%		27	30	30	40
COMPRESSION LOAD DEFLECTION UNI EN ISO 3386	kpa ± 15%	40%	4,0	4,3	4,0	5,2
IDENTATION LOAD DEFLECTION UNI EN ISO 2439	Newton ± 15%	25%	110	120	115	160
		65%	300	330	315	384
ELONGATION AT BREAK UNI EN ISO 1798	% min		129	138	144	122
LOAD AT BREAK (TRACTION) UNI EN ISO 1798	kpa min		88	97	100	101
RESILIENCE UNI EN ISO 8307	% (± 10%)		40	33	34	40
DYNAMIC FATIGUE UNI EN ISO 3385	% max		29	29	30	22
COMPRESSION SET UNI EN ISO 1856/A	% max	50%	4	4	4	2
		75%	7	8	8	4
FIRE TESTS			C E G	C E M	C E G	C E M
COLOR						
BLOCKS WIDTH IN CM			215	215	215	215

HR

Products' range characterized by high resilience. These polyurethanes are available both in a fire resistant version (continuous production based on TDI) and customizable one(discontinuous production based on MDI).

FIRE RESISTANCE CERTIFICATES

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Technical features

			30 HR 3,2	35 CMHR 3,2	40 CMHR 3,8	35 HR 2,8	35 HRCG 3,7	40 HRCG 3,7	35 HRP 4,0	75 HR 12,0
DENSITY UNI EN ISO 845	3kg/m 3 ± 5%		30	35	40	33	38	38	35	74
COMPRESSION LOAD DEFLECTION UNI EN ISO 3386	kpa ± 15%	40%	3,2	3,2	3,8	2,8	3,7	3,7	4,0	12,0
IDENTATION LOAD DEFLECTION UNI EN ISO 2439	Newton ± 15%	25%	100	100	115					
		65%	210	220	250					
ELONGATION AT BREAK UNI EN ISO 1798	% min		141	99	99	84	66	66		69
LOAD AT BREAK (TRACTION) UNI EN ISO 1798	kpa min		126	100	100					
RESILIENCE UNI EN ISO 8307	% (± 10%)		55	57	57					
DYNAMIC FATIGUE UNI EN ISO 3385	% max		15	16	16					
COMPRESSION SET UNI EN ISO 1856/A	% max	50%	4	4	4	2	2	2	5	2
		75%	6	6	6	6	4	4	8	4
FIRE TESTS			E H L	E C F	C					
COLOR						On demand				
BLOCKS WIDTH IN CM			203	203	203	140x190 140x200 160x190 160x200 180x200 180x210				

FIRE RESISTANCE CERTIFICATES

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TECHNICAL

Range of technological products characterised by the excellent synthesis between polyurethane's lift and undeformability, obtained thanks to the use of graft polyols and innovative production techniques.

SITAB

Technical features

			25 PH 5,5	30 PH 7,0	40 PH 8,1
DENSITY UNI EN ISO 845	3kg/m 3 ± 5%		25	30	40
COMPRESSION LOAD DEFLECTION UNI EN ISO 3386	kpa ± 15%	40%	5,5	7,0	8,1
IDENTATION LOAD DEFLECTION UNI EN ISO 2439	Newton ± 15%	25%	170	210	245
		65%	455	520	594
ELONGATION AT BREAK UNI EN ISO 1798	% min		120	99	105
LOAD AT BREAK (TRACTION) UNI EN ISO 1798	kpa min		164	169	194
RESILIENCE UNI EN ISO 8307	% (± 10%)		33	33	40
DYNAMIC FATIGUE UNI EN ISO 3385	% max		29	25	23
COMPRESSION SET UNI EN ISO 1856/A	% max	50%	4	2	2
		75%	6	4	4
FIRE TESTS			A	A	A
COLOR			◯	◯	◯
BLOCKS WIDTH IN CM			215	215	215

FIRE RESISTANCE CERTIFICATES

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AIR MEMORY STANDARD

visco COLOR

Viscoelastics represent SITAB P.E.'s challenge for the comfort market.

Innovative products with high density and an incomparable breathability: self-modeling with shape memory, they are ideal to enjoy an absolute comfort.

They are designed with different and combined characteristics of density and firmness, based on a common denominator: a very high level of comfort associated with breathability, granted by the tests' certified results.

SITAB

AIR MEMORY STANDARD

Technical features

			35 ADM 1,6	35 AD 3,0	40 AD 2,5	50 SAD SS 1,8	50 SAD 2,5	50 HAD 3,5	50 HAD PH 12,0	55 AU 2,7	SY60 ES 3,4	100 ADM 2,2
DENSITY UNI EN ISO 845	3kg/m 3 ± 5%		35	34	39	46	49	49	51	54	59	93
COMPRESSION LOAD DEFLECTION UNI EN ISO 3386	kpa ± 15%	40%	1,6	3,0	2,5	1,8	2,5	3,5	12,0	2,7	3,4	2,2
ELONGATION AT BREAK UNI EN ISO 1798	% min		148	101		150	138	115	106		124	74
COMPRESSION SET UNI EN ISO 1856/A	% max	50%	2	2	2	2	2	2	2		5	1
		75%	2	2	2	2	2	2	2		5	2
FIRE TESTS										E	E	
COLOR			On demand									
BLOCKS WIDTH IN CM			140x190 140x200 160x190 160x200 180x200 180x210									

CERTIFICATI DI RESISTENZA AL FUOCO

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HR LATEX LIKE

The latest frontier in comfort is the AIR ACTIVE range by SITAB. These products replicate the sensations offered by latex, ensuring a comfort index (SAG FACTOR) at the top of the market.

SITAB

HR LATEX LIKE

Technical features

			35 AT 2,0	40 AT 1,9	50 HAT 3,0	55 AT 2,0
DENSITY UNI EN ISO 845	3kg/m 3 ± 5%		34	39	46	55
COMPRESSION LOAD DEFLECTION UNI EN ISO 3386	kpa ± 15%	40%	2,0	1,9	3,0	2,0
ELONGATION AT BREAK UNI EN ISO 1798	% min		99	105		
COMPRESSION SET UNI EN ISO 1856/A	% max	50%	6	4		2
		75%	8	6		4
FIRE TESTS						
COLOR			On demand			
BLOCKS WIDTH IN CM			140x190 140x200 160x190 160x200 180x200 180x210			

CERTIFICATI DI RESISTENZA AL FUOCO

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ICE

The new AIR MEMORY ICE polyurethane foams, viscoelastic memory foam, and AIR ACTIVE ICE with latex effect ensure a long-lasting and pleasant cooling sensation, with thermoregulating temperature control in the areas in contact with the body, creating an ideal microclimate that allows for a refreshing and comfortable rest.

SITAB

Technical features

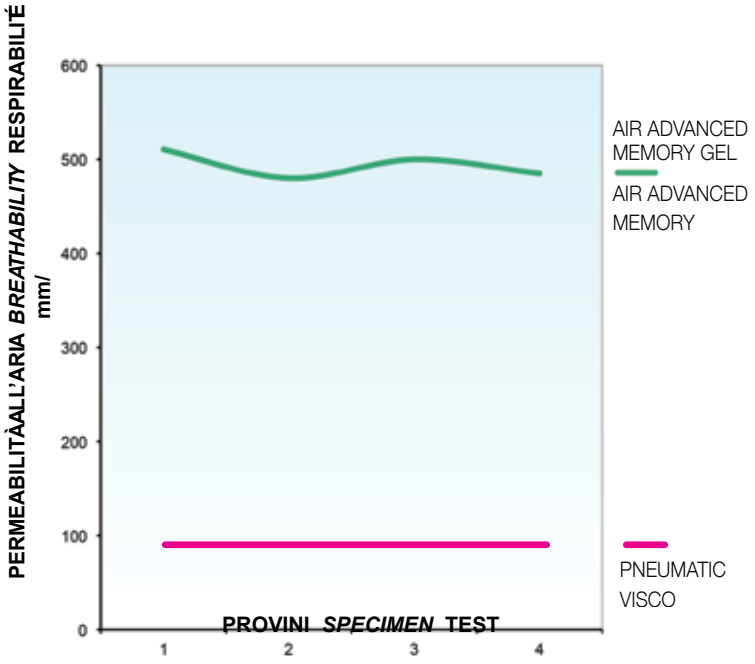
			35 AT 2,0	40 AT 1,9	50 HAT 3,0	55 AT 2,0
DENSITY UNI EN ISO 845	3kg/m 3 ± 5%		49	42	52	52
COMPRESSION LOAD DEFLECTION UNI EN ISO 3386	kpa ± 15%	40%	2,0	0,9	1,1	1,3
ELONGATION AT BREAK UNI EN ISO 1798	% min			143		
COMPRESSION SET UNI EN ISO 1856/A	% max	50%	1	1		
		75%	1	1		
FIRE TESTS						
COLOR			On demand			
BLOCKS WIDTH IN CM			140x190 140x200 160x190 160x200 180x200 180x210			

AIR

COMPLETELY BREATHABLE

Complete and unparalleled breathability is the distinctive feature of AIR ADVANCED MEMORY polyurethane foams, the viscoelastic memory foam line and AIR ACTIVE, the evolution of natural latex.
The technological detail of these microporous foams ensures constant airflow between cells and prevents the formation of moiture pockets considered fertile ground for the proliferation of mites and bacteria.

The specific technological use of air during the manufacturing of AIR polyurethane foams, allows the creation of innovative products, with characteristics of high breathability, granting a continuous aeration of the products during their use.



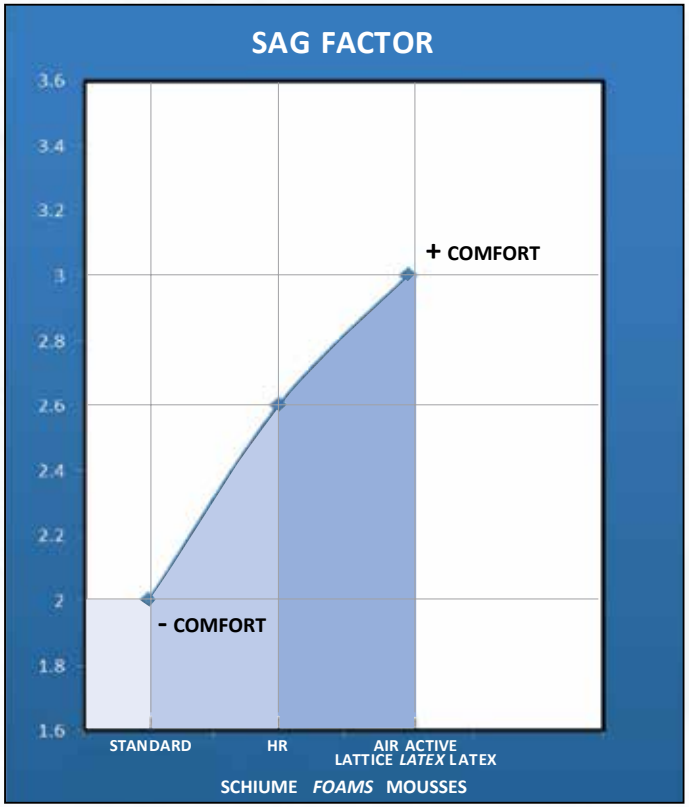
Breathability test
The comparative tests, certified according to ISO 9237: 1995, show that the breathability of the viscoelastic foam AIR ADVANCED MEMORY reaches high values, while for the pneumatic viscoelastic foams with a closed cell structure, the value is close to zero.

AIR ACTIVE

INCOMPARABLE COMFORT INDEX

Comfort index is extremely important as a high comfort index means that both stout and slim people will equally appreciate how a mattress or pillow can adapt to the shape and movements of their bodies.
One of the fundamental elements to evaluate comfort is the Sag Factor, or comfort index, that measures the ratio between the compression values of foams at 65% and 25%. Conventional polyurethane foams have a Sag Factor value of about 2.0, while HR polyurethane foams show values of about 2.6.

Our AIR ACTIVE polyurethane foams, with their latex effect, reach 3.0, equaling natural rubber latex but keeping the advantage of a much greater lightness.

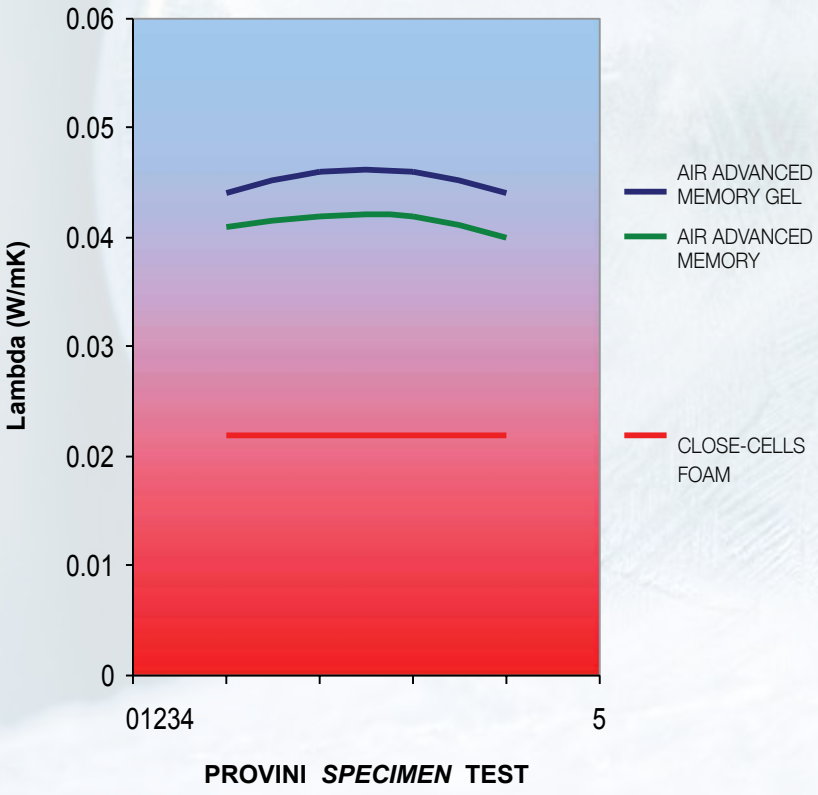


SAG FACTOR Test
All values result from experimental tests and provide an indication of the comfort index of each material: the higher the number, the greater the comfort.

GEL REFRESHING EFFECT

Thermal conductivity (shown by the symbol λ, lambda) measures the capacity of a given material to release heat. The greater the value λ, the better the heat dissipation of that material is.

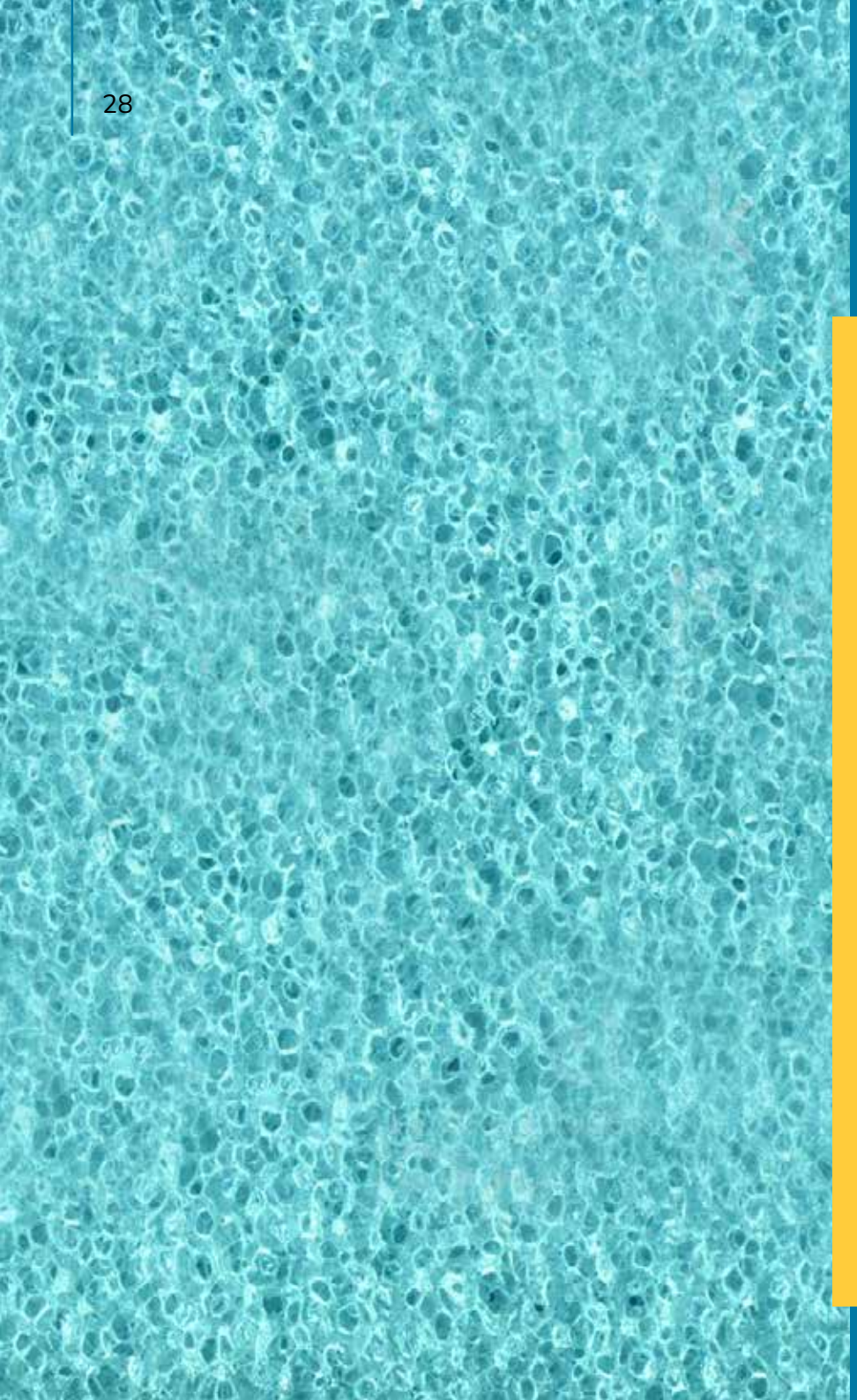
In materials with a closed cell structure thermal exchanges occur principally by conduction through the solid walls of the cells and by radiation through the cells themselves, whereas in open cell structures they occur mainly by the convection between cells. It is therefore clear that in closed cell foams, as in traditional pneumatic viscoelastic ones, heat dissipation occurs very slowly. On the contrary, in innovative open cell foams such as AIR ADVANCED MEMORY GEL, the constant airflow optimizes heat dissipation by creating a beneficial refreshing effect.



The curves in the graph show how the dissipation of the heat occurs much more effectively in the open cell foams AIR than a normal closed cell visco foam. The test has been performed according to the UNI EN 12667 standard.

ICE COMFORT AND FRESHNESS

From ongoing research on innovation and performances, SITAB developed ICE sensation, a comfortable and lasting feeling of freshness.
SITAB applied this special technology to the AIR MEMORY open cell polyurethane foams, the viscoelastic memory foam and AIR ACTIVE, the evolution of natural latex.
Our new polyurethane foams - AIR MEMORY ICE, foam viscoelastic and AIR ACTIVE ICE with a latex effect - ensure a lasting and pleasant refreshing feeling thanks to their temperature-regulating control in the areas in contact with the body, thus creating an ideal microclimate which allows a refreshing and comfortable rest.
Thanks to their high degree of breathability and resilience, these foams are perfectly suitable for the manufacturing of anatomical structures for mattresses with top-level properties of comfort and freshness.
The characteristics of the ICE formulation ensure innovative thermoregulatory performance that can improve the quality of sleep, greatly reducing the proliferation of bacteria and mold, guaranteeing a highly hygienic and comfortable product.



BRANDS

SITAB

AIR MEMORY

The continuous air exchange in **Air** products prevents the stagnation of humidity, the formation of mold and reduces the conditions favorable to the development of mites. This is possible thanks to the microporosity ensuring by the open cell structure.

Air Memory, the viscoelastic memory foam, is the result of a new formulation mainly based on the use of ingredients of natural plant origin, and therefore renewable.

AIR ACTIVE

Air Active polyurethane foams, latex effect, reach a value of 3.0 equal to that of natural latex but with the advantage of a greater lightness.

EUROCELL

Eurocell is the brand that has always characterized products by Sitab Pe: from standard products to high resilience and viscoelastic ones. A guarantee of quality among the highest on the market.

LAZY

High-density viscoelastic products suitable for rest, but not only.

EGO

Thanks to the choice of innovative production processes, we have the opportunity to select high resilience and completely customizable products.

ZEFIRO

Zefiro brand products are both viscoelastic and highly resilient and guarantee an incredible air permeability offering a rest quality at the top of the market.

BRANDED PRODUCTS: AIR MEMORY, AIR ACTIVE, LAZY, EGO, ZEFIRO ARE ALL MDI BASED

STANDARD

25 P 4,1	30 P 5,2	35 P 5,7	40 P 6,0

FIRE RESISTANT STANDARD

27 CM 4,0	30 CM 4,3	30 AU 4,0	40 RC 5,2

NON DEFORMABLE ELASTIC

23 EM 3,3	25 EMS 3,1	25 EM 3,6	26 EM 3,9	28 EM 3,9	30 EM 3,7	30 E 4,0	32 EM 4,0	32 EMP 4,1	35 EM 4,3	35 EMT 4,1	38 SS 2,9	40 EM 3,9

euro CELL

HR

30 HR 3,2	35 CMHR 3,2	40 CMHR 3,8	35 HR 2,8	35 HRCG 3,7	40 HRCG 3,7	35 HRP 4,0	75 HR 12,0

TECHNICAL

25 PH 5,5	30 PH 7,0	40 PH 8,1

SITAB

HR LATEX LIKE

35 AT 2,0	40 AT 1,9	50 HAT 3,0	55 AT 2,0

ICE

35 AT 2,0	40 AT 1,9	50 HAT 3,0	55 AT 2,0

AIR MEMORY STANDARD

35 ADM 1,6	35 AD 3,0	40 AD 2,5	50 SAD SS 1,8	50 SAD 2,5	50 HAD 3,5	50 HAD PH 12,0	55 AU 2,7	SY60 ES 3,4	100 ADM 2,2

NOTES


SITAB

Our challenge for the comfort market.

SITAB P.E. S.p.A.

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