



TEST REPORT

N. **4014810/E**

date: 03/03/2022

CLIENT: **BOARDS & MORE GmbH**
Rabach 1
4591 Molln
Austria

DP

FOR THE ATTENTION OF: Jakob Weigel

DC 14776

SAMPLING: done by the Applicant

SAMPLES RECEIVED: 22/02/2022

TEST PERIOD: 24/02-03/03/2022

SAMPLES: Limb protectors for bike downhill use:
- art. **"ION - K-LITE ZIP" (47220-5918)** declared K type B;
- art. **"ION - K-LITE" (47220-5918)** declared K type B;
- art. **"ION - E-LITE" (47220-5920)** declared E type A.

See the complete description on the next page.

REQUEST: Laboratory tests in accordance with EN 1621-1:2012 for the aim of the Certification (Regulation (EU) 2016/425).

NOTE:

The art. "ION K-L1 LITE" inserted in the sleeve has already been certified with EC no. 289220302.
The art. "ION E/S-L1 LITE" inserted in the sleeve has already been certified with EC no. 289220303.

OUTCOME: **PASS**

Notes:

All results refer exclusively to the tested materials.

Partial reproduction or publication not admitted without written authorization by RCT.

Positive results of a test report do not imply that the tested product is "certified" or "approved" by RCT.

Comments and interpretations are of subjective nature and not part of the Test Report.

Test carried out by qualified partner lab ISO 17025.

* Test not accredited by Accredia

Conformity assessment criterion: the result is considered compliant until the value falls within or coincides with the specification limit.

Unless otherwise indicated, the test conditions correspond to the reference standard.

M22 rev06 del 01/01/2022



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Description:

article: "ION - K-LITE ZIP" (47220-5918);

design: multilayer/sleeve;

external coating:

- black TPU coating (TPU Foil with rough profile 0.15mm/54"W) (1);
- black fabric (Wearproof Fabric Polyester for Outside Pocket NN-6512DR/44"W) (2);
- black knitting coupled with anthracite perforated foam and black knitting (Neoprene 2.5mmH/51"x130") (3);
- black stretch knitting (Polyester lycra piping 35mm/W) (4);
- black perforated mesh (Nylon Back Mesh 60"W/280G/Y) (7);

padding:

- art. K-L1 by SAS TEC;

internal coating (in contact with the body):

- black knitting coupled with anthracite foam and black knitting (Neoprene 2.5mmH/51"x130") (5);
- black fabric coupled with grey foam (Velvet fabric+2mmSponge 60"W) (6);
- black perforated mesh (Nylon Back Mesh 60"W/280G/Y) (7);
- black webbing with silicone (Polyester Elastic Strap With Silicon Printing 38mmW) (9);
- black polymeric material (Non-slip Neoprene 2mmH/51"x130") (13);
- black stretch fabric (Nylon Elastic piping 15mmW) (14);

edge:

- black stretch knitting (Polyester lycra piping 35mm/W) (4);

fastening system:

- black strap (Nylon elastic strap 38mmW) (8) with black fabric pad with hooks (Nylon Injection Velcro hook 25mmW) (11);
- black strap (Polyester Elastic Strap 25mmW) (10) with black fabric pad with hooks (Nylon Injection Velcro hook 25mmW) (11);
- black loop pads (Nylon Injection Velcro loop 25mmW) (12);
- black zipper closure.

article: "ION - K-LITE" (47220-5918);

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padding:

- art. K-L1 by SAS TEC;

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- black strap (Polyester Elastic Strap 25mmW) (10) with black fabric pad with hooks (Nylon Injection Velcro hook 25mmW) (11);
- black loop pads (Nylon Injection Velcro loop 25mmW) (12).



article: "ION - E-LITE" (47220-5920);

design: multilayer/sleeve;

external coating:

- black TPU coating (TPU Foil with rough profile 0.15mm/54"W) **(1)**;
- black fabric (Wearproof Fabric Polyester for Outside Pocket NN-6512DR/44"W) **(2)**;
- black knitting coupled with anthracite perforated foam and black knitting (Neoprene 2.5mmH/51"x130") **(3)**;
- black stretch knitting (Polyester lycra piping 35mm/W) **(4)**;
- black perforated mesh (Nylon Back Mesh 60"W/280G/Y) **(7)**;

padding:

- art. K-L1 by SAS TEC;

internal coating (in contact with the body):

- black knitting coupled with anthracite foam and black knitting (Neoprene 2.5mmH/51"x130") **(5)**;
- black fabric coupled with grey foam (Velvet fabric+2mmSponge 60"W) **(6)**;
- black perforated mesh (Nylon Back Mesh 60"W/280G/Y) **(7)**;
- black webbing with silicone (Polyester Elastic Strap With Silicon Printing 38mmW) **(9)**;
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edge:

- black stretch knitting (Polyester lycra piping 35mm/W) **(4)**;

fastening system:

- black strap (Nylon elastic strap 38mmW) **(8)** with black fabric pad with hooks (Nylon Injection Velcro hook 25mmW) **(11)**;
- black loop pads (Nylon Injection Velcro loop 25mmW) **(12)**.

Groups of materials tested for Azo-dyes content:

- A) 1 + 2 + 3 + 5;
- B) 4 + 6 + 7;
- C) 8 + 9 + 10;
- D) 11 + 12 + 13 + 14.



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References	Tests	Measuring unit	Requirements	Results	
EN 1621-1:2012	Motorcyclists' limb joint impact protectors			art. "ION - K-LITE ZIP" (47220-5918)	
4 (5.3 – 6.3.1.5)*	Type of protector - declared dimension: - tested/confirmed dimension:	-	S, E, H, K, L, K+L Type A/B (table 1)	K B B	
4 (5.3 – 6.3.1.5)*	Type of protector - declared dimension: - tested/confirmed dimension:	-	S, E, H, K, L, K+L Type A/B (table 1)	art. "ION - K-LITE" (47220-5918) K B B	
4 (5.3 – 6.3.1.5)*	Type of protector - declared dimension: - tested/confirmed dimension:	-	S, E, H, K, L, K+L Type A/B (table 1)	art. "ION - E-LITE" (47220-5920) E A A	
5.2 5.2.1	Innocuousness				
EN ISO 13688:2013+ A1:20214.2*	Innocuousness		Materials shall not adversely affect the health or hygiene of the user, they shall not release substances generally known to be toxic, carcinogenic, mutagenic, allergenic, toxic to reproduction or otherwise harmful.	Pass	
4.2/c ISO 3071: 2020	pH - leather - other materials extracting solution: KCl	- -	> 3,5 and < 9,5	Material:	
				1	7,7
				2	7,4
				3	7,3
				4	6,9
				5	8,2
				6	7,1
				7	7,3
				8	7,2
				9	7,8
				10	7,8
				11	7,7
				12	7,1
				13	7,2
				14	7,3



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References	Tests	Measuring unit	Requirements	Results
4.2 d ISO 14362-1:2017# textile	Azo colorants content:	mg/kg	absent (< 30 mg/kg)	Group: A-B-C-D Pass
5.2.2 (6.2) (EN ISO 11642:2012 o EN ISO 105-E01: 2013)*	Colour fastness to water - discharge a) acetate b) cotton c) polyamide d) polyester e) polyacrylic f) wool	Grey scale 5=good, 1=bad.	≥ 4 ≥ 4 ≥ 4 ≥ 4 ≥ 4 ≥ 4	Material: 1 2 3 4 5 5 5 5 5 5 5 4/5 5 5 5 4/5 5 5 5 5 5 5 5 5 5 5 5 5
5.2.2 (6.2) (EN ISO 11642:2012 o EN ISO 105-E01: 2013)*	Colour fastness to water - discharge a) acetate b) cotton c) polyamide d) polyester e) polyacrylic f) wool	Grey scale 5=good, 1=bad.	≥ 4 ≥ 4 ≥ 4 ≥ 4 ≥ 4 ≥ 4	Material: 5 6 7 8 5 5 5 5 4/5 5 5 5 4/5 5 4/5 5 5 5 5 5 5 5 5 5 5 5 5 5
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5.5	Ergonomic features			Valid for all the mentioned protectors
6.4	Absence of any sharp edges and/or other design features that may cause any inconvenience to the user		yes	Yes
6.5	Tests:			
	- the protectors fits properly		yes	Yes
	- you can get on and off a motorcycle;		yes	Yes
	- you can comfortably reach the controls of the motorcycle;		yes	Yes
	- you can pick something up from the floor by bending forward;		yes	Yes
	- shoulder protectors: while wearing a full face helmet, you can turn your head and/or torso left and right;		yes	n/a
	- the adjustment system does not cause discomfort;		yes	Yes
	- while performing these movements the adjustment system securely holds the protector in place;		yes	Yes

- End of the test report -