

DP

Firm: **BOARDS & MORE GmbH**

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DC 13155

For the attention of: Jakob Weigel

TEST REPORT

N. **3915211/E**

date: 22/02/2021

Sampling: done by the Applicant

Samples received on: 12/02/2021

Test period: 15-22/02/2021

SAMPLES: Limb protectors for bike downhill use:


- art. "**K-SLEEVE AMP**" (**47210-5902**) declared K type A;
- art. "**E-SLEEVE AMP**" (**47210-5903**) 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:

Impact tests have been performed on the pad as stand alone, as requested by the Customer.

OUTCOME:  **PASS**

Notes:

All results refer exclusively to the tested materials.

Partial reproduction or publication, e.g. for advertising purpose 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.

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

Description:

article: "K-SLEEVE AMP" (47210-5902) available in the following commercial sizes S/M/L/XL;

design: Pad inserted in a pocket sleeve;

pad: black memory PU foam (KNEE 47210-5902) coupled with black knitting (8);

external coating:

- black "TPU FOIL WITH ROUGH PROFILE" (0,15mm/54"W) (1);
- black stretch fabric "WEARPROOF FABRIC POLYESTER" (NN-6512DR/44"W) (2);
- black stretch knitting "POLYESTER LYCRA" (280g/y 60"W) (3);
- black stretch knitting "NYLON DOUBLE LYCRA WITH TRANSPARENT SILICONE STRIPES" (500g/y 60"W) (4);
- black stretch knitting "NYLON BIRDEYES ELASTIC FABRIC" (JSD029/60"W) (5);

internal coating (in contact with the body):

- black stretch knitting (6);
- black binding fabric (7).

article: "E-SLEEVE AMP" (47210-5903) available in the following commercial sizes S/M/L/XL;

design: Pad inserted in a pocket sleeve;

pad: black memory PU foam (ELBOW 47210-5903) coupled with black knitting (8);

external coating:

- black "TPU FOIL WITH ROUGH PROFILE" (0,15mm/54"W) (1);
- black stretch fabric "WEARPROOF FABRIC POLYESTER" (NN-6512DR/44"W) (2);
- black stretch knitting "POLYESTER LYCRA" (280g/y 60"W) (3);
- black stretch knitting "NYLON DOUBLE LYCRA WITH TRANSPARENT SILICONE STRIPES" (500g/y 60"W) (4);
- black stretch knitting "NYLON BIRDEYES ELASTIC FABRIC" (JSD029/60"W) (5);

internal coating (in contact with the body):

- black stretch knitting (6);
- black binding fabric (7).

References	Tests	Measuring unit	Requirements	Results
EN 1621-1:2012	Motorcyclists' limb joint impact protectors			
art. "K-SLEEVE AMP" (47210-5902)				
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 A A
	Weight	g	-	96
5.2 5.2.1	Innocuousness			
EN ISO 13688:2013 4.2	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 4045:2018 ISO 3071: 2020	pH - leather - other materials extracting solution: KCl Material: 1 Material: 2 Material: 3 Material: 4 Material: 5 Material: 6 Material: 7 Material: 8	- -	> 3,5 and < 9,5	7,2 7,5 7,4 6,9 7,7 7,1 7,1 7,4

date: 22/02/2021

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References	Tests	Measuring unit	Requirements	Results
5.4	Impact test			
5.4 6.3.4.2	Impact force transmission 50J / flat impactor 40x80mm - Standard conditioning (23°C/50% r.h.) - 3 impacts zone A: - 3 impacts zone B: - 3 impacts zone C: - Mean: - Level: Visual check after impact	kN	lev.1 lev.2 ≤ 35 ≤ 20 ≤ 50 ≤ 30 ≤ 50 ≤ 30 ≤ 35 ≤ 20 1/2	19,6 20,0 19,8 19,4 20,6 19,5 20,7 22,6 20,8 20,3 1
5.4 6.3.4.3	Impact force transmission 50J / flat impactor 40x80mm - Wet impact test conditioning: hydrolytic treatment 72h/+70°C/>96% r.h. + 24h/23°C - 2 impacts zone A: - 2 impacts zone B: - 2 impacts zone C: - Mean: - Level: Visual check after impact <i>Note: at the end of the hydrolytic treatment the protectors are hung in a water vapor proof bag, avoiding the direct contact with the bag itself.</i>	kN	lev.1 lev.2 ≤ 35 ≤ 20 ≤ 50 ≤ 30 ≤ 50 ≤ 30 ≤ 35 ≤ 20 1/2	17,8 17,6 16,5 19,3 18,0 19,0 18,0 2
-	Overall protective level	-	1/2	1

References	Tests	Measuring unit	Requirements	Results
art. "E-SLEEVE AMP" (47210-5903)				
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)	E A A
	Weight	g	-	53
5.4	Impact test			
5.4 6.3.4.2	Impact force transmission 50J / flat impactor 40x80mm - Standard conditioning (23°C/50% r.h.) - 3 impacts zone A: - 3 impacts zone B: - 3 impacts zone C: - Mean: - Level: Visual check after impact	 kN kN - -	 lev.1 lev.2 ≤ 35 ≤ 20 ≤ 50 ≤ 30 ≤ 50 ≤ 30 ≤ 35 ≤ 20 1/2 no fragmentation of the sample and no sharp edges, cracks and loss of soft debris are permissible	 24,0 26,0 25,5 23,7 27,7 24,1 26,4 26,0 25,0 25,4 1 Pass
5.4 6.3.4.3	Impact force transmission 50J / flat impactor 40x80mm - Wet impact test conditioning: hydrolytic treatment 72h/+70°C/>96% r.h. + 24h/23°C - 2 impacts zone A: - 2 impacts zone B: - 2 impacts zone C: - Mean: - Level: Visual check after impact <i>Note: at the end of the hydrolytic treatment the protectors are hung in a water vapor proof bag, avoiding the direct contact with the bag itself.</i>	 kN kN - -	 lev.1 lev.2 ≤ 35 ≤ 20 ≤ 50 ≤ 30 ≤ 50 ≤ 30 ≤ 35 ≤ 20 1/2 no fragmentation of the sample and no sharp edges, cracks and loss of soft debris are permissible	 23,7 22,5 23,5 19,9 24,8 20,9 22,6 1 Pass
-	Overall protective level	-	1/2	1

References	Tests	Measuring unit	Requirements	Results
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 -