

SHENZHEN HAOCHEN INDUSTRIAL CO.,LTD  
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SHENZHEN,GUANGDONG,CHINA

Sample Description : 运动护膝护肘护腕 SPORTS KNEE PADS ELBOW PADS WRIST PADS  
Item No. : MD-610,HC-615,MD-615

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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Range : B  
Level : 1  
Sample Receiving Date : Mar 10, 2022  
Sample Resubmission Date : Mar 30, 2022  
Test Performing Date : Mar 10, 2022 to Apr 02, 2022  
Test Performed : BS EN 14120:2003+A1:2007  
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Arthur Mak  
Authorized Signatory



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Guangzhou Branch Testing Center Headlines

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**Test Conducted:** Based on **BS EN 14120:2003+A1:2007** Protective clothing –Wrist, palm, knee and elbow protectors for user of roller sports equipment – requirements and test methods.

**Test Results:**

Clause	Test Method/Requirement	Result
<b>4</b>	<b>Performance levels</b>	
<b>4.1</b>	Level 1: Protectors intended to be suitable for normal roller sports.	Level 1
<b>4.2</b>	Level 2: Protectors intended to be suitable for use in acrobatic roller sports.	
<b>5</b>	<b>Requirements</b>	
<b>5.1</b>	General performance requirements shall be based on 3 weight ranges as follows: a) range A : Users of up to 25 kg body weight ; b) range B : Users of body weight between 25 kg and 50 kg ; c) range C : Users of body weight above 50 kg. Combined protectors such as wrist protectors shall meet the requirements for each protector.	Range B
<b>5.2</b>	<b>Ergonomics</b> Protectors shall be so designed and manufactured that in the foreseeable conditions of use for which they are intended the user can perform the roller sports normally and unhindered whilst enjoying protection at the specified limit.	Pass
<b>5.3</b>	<b>Innocuousness</b> Protectors shall be safe to use and fit for their purpose. They shall be designed and manufactured to provide protection when used according to the manufacturer's instructions, without endangering the user or others.	Pass
	There shall not be hard or sharp edges, seams, buckles or other items on the surfaces of the products that could harm the user or others during normal use. Examination shall be made according to 6.3.	Pass
	Construction materials and incorporated substances shall not harm those coming into contact with them.	NT
	The manufacturer shall list in the information supplied with the protectors the main composition of the protectors and shall label any protector containing substances or preparations generally known to be hazardous. Information about determining the chemical innocuousness of protectors is given in annex A.	NT
<b>5.4</b>	<b>Sizing</b> Protectors shall be marked with a size. The size shall be designated by the range of body of the intended users, see 5.1.	NT



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<p><b>5.5</b></p>	<p><b>Restraint</b> Protectors shall not be easily displaced from the areas they are designed to protect during normal movements and when subjected to impacts. When subjected to impacts. When tested in accordance with 6.4 the central point of a protector shall not move more than the appropriate value in Table 1.</p> <p>Table 1: Maximum movement of protectors during testing.</p> <table border="1"> <thead> <tr> <th rowspan="2">Kind of protectors</th> <th colspan="3">Maximum movement (mm)</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Elbow protectors</td> <td>20</td> <td>40</td> <td>50</td> </tr> <tr> <td>Knee protectors</td> <td>30</td> <td>50</td> <td>60</td> </tr> <tr> <td>Wrist protectors</td> <td>20</td> <td>20</td> <td>20</td> </tr> <tr> <td>Palm protectors</td> <td>20</td> <td>20</td> <td>20</td> </tr> </tbody> </table>	Kind of protectors	Maximum movement (mm)			A	B	C	Elbow protectors	20	40	50	Knee protectors	30	50	60	Wrist protectors	20	20	20	Palm protectors	20	20	20	<p>Pass See annex 1</p>																	
Kind of protectors	Maximum movement (mm)																																									
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Knee protectors	30	50	60																																							
Wrist protectors	20	20	20																																							
Palm protectors	20	20	20																																							
<p><b>5.6</b></p>	<p><b>Abrasion resistance</b> When tested in accordance with 6.5 the abrasion resistant layer of the protector shall not be perforated.</p>	<p>Pass See annex 2</p>																																								
<p><b>5.7 *</b></p>	<p><b>Impact strength</b> When tested in accordance with 6.6 the abrasion resistant layer of the knee, elbow, wrist or palm protector shall not break or split.</p> <p style="text-align: right;">Unit: J</p> <table border="1"> <thead> <tr> <th rowspan="3">Kind of protectors</th> <th colspan="3">Level 1</th> <th colspan="3">Level 2</th> </tr> <tr> <th colspan="6">Range of body mass</th> </tr> <tr> <th>A</th> <th>B</th> <th>C</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Knee protectors</td> <td>25±2</td> <td>45±2</td> <td>65±2</td> <td>30±2</td> <td>50±2</td> <td>70±2</td> </tr> <tr> <td>Elbow protectors</td> <td>20±2</td> <td>40±2</td> <td>60±2</td> <td>20±2</td> <td>40±2</td> <td>60±2</td> </tr> <tr> <td>Wrist and Palm protectors</td> <td>30±2</td> <td>40±2</td> <td>50±2</td> <td>30±2</td> <td>40±2</td> <td>50±2</td> </tr> </tbody> </table>	Kind of protectors	Level 1			Level 2			Range of body mass						A	B	C	A	B	C	Knee protectors	25±2	45±2	65±2	30±2	50±2	70±2	Elbow protectors	20±2	40±2	60±2	20±2	40±2	60±2	Wrist and Palm protectors	30±2	40±2	50±2	30±2	40±2	50±2	<p>Pass See annex 3</p>
Kind of protectors	Level 1			Level 2																																						
	Range of body mass																																									
	A	B	C	A	B	C																																				
Knee protectors	25±2	45±2	65±2	30±2	50±2	70±2																																				
Elbow protectors	20±2	40±2	60±2	20±2	40±2	60±2																																				
Wrist and Palm protectors	30±2	40±2	50±2	30±2	40±2	50±2																																				



5.8 *	<b>Impact performance for knee, palm and elbow protectors</b>							Pass See annex 4	
	A protector complies with this standard if the mean value of the peak force does not exceed the value in Table 2 when tested in accordance with 6.7.								
	Kind of protector	Protectors level 1							Maximum peak force kN
		Range of body mass							
		A		B		C			
		r	e	r	e	r	e		
		mm	J	mm	J	mm	J		
	Knee protectors	25	3	35	8	50	12		6
	Elbow protectors	12.5	1	17.5	4	25	6		4
	Palm protectors	100	3	100	4	100	5		3
	Kind of protector	Protectors level 2							Maximum peak force kN
		Range of body mass							
A		B		C					
r		e	r	e	r	e			
	mm	J	mm	J	mm	J			
Knee protectors	25	15	35	20	50	25	6		
Elbow protectors	12.5	7.5	17.5	10	25	15	4		
Palm protectors	100	6	100	8	100	10	3		
r is the radius of curvature of the anvil e is the impact energy									
5.9	<b>Specific requirements for wrist protectors</b>								
5.9.1	<b>Adjustment</b> The restraint system shall be continuously adjustable. Testing in accordance with 6.1							NA	
5.9.2	<b>Stiffness</b> Wrist protectors shall be sufficiently stiff that when tested according to 6.8 the extension of the artificial wrist joint is between $\sphericalangle A1 \sphericalangle 35^\circ \sphericalangle A1$ and $55^\circ$ . NOTE Extension of the wrist joint is the bending of the hand backwards from a position in a straight line with the forearm. Unit: N-m							NA	
	Moment of force		Range						
			A		B		C		
	2		3		3				



5.9.3	<b>Dimensions of stiffness elements</b>			NA	
	Wrist protectors shall have stiffening elements that exceed the dimensions in table 3. The reference point for measurements shall be the plane of the wrist of an appropriate size of subject, who has put on the protector. The position of the plane of the wrist of the subject shall be determined according to EN 1082-1				
	Unit: mm				
	Location of stiffness elements	Range of body mass			
		A	B		C
Length from the wrist up to the arm	30	40	50		
Length from the wrist towards the finger tip	40	50	60		
Width in the palmer region	15	20	25		

7	<b>Marking</b>			
	Protectors shall be durably and clearly marked with the following:			NT
	a.	name of trademark of the manufacturer or his authorized representative within the European Union;		NT
	b.	designation of the protector, commercial name of that uniquely identifies the protector;		NT
	c.	size of the protector (see also 5.4)		NT
	d.	name of this standard and the performance level;		NT
	e.	clear indication whether the protector is for left or right fitting, if appropriate;		NT
	f.	international care label symbols;		NT
	g.	year of manufacture (date or code);		NT
h.	the following pictogram, instructing the user to see the information supplied by the manufacture.		NT	



Information supplied by the manufacturer		
8	Protectors shall be supplied with information and instructions for fitting and use to promote their safe and effective use. The information shall be precise and comprehensible and in the official languages of the country or region in which the equipment is to be placed on the market. At least the following information and instructions shall be given:	NT
	a. all the information specified in clause 7;	NT
	b. full address of the manufacturer or importer	NT
	c. instructions on how to select protectors of the correct performance level and explanation of the performance level of the protectors specified in this standard;	NT
	d. instructions on how to choose the correct size of protector and check its fit;	NT
	e. details of the size of protectors and the body dimensions to which they relate;	NT
	f. instructions on how to adjust the protectors;	NT
	g. warning about any changes in environmental conditions, such as temperature, that would significantly reduce the performance of the protector;	NT
	h. warning that no protector can offer full protection against injuries;	NT
	i. warning about any contamination, alteration to the protector, or misuse that would dangerously reduce the performance of the protector;	NT
	j. list of the substances in the main components of the protector;	NT
	k. instructions for caring for and cleaning the protector;	NT
	l. instructions concerning the expected service life of the protector, inspections to carry out, repairs that may be made, and advice on when discard the protector because it might no longer perform adequately.	NT

**Remark:** 1. NA = Not applicable.  
 2. NT = Not tested as per client's request.  
 3. The item with \* means it has been retested.



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Item No: MD-610,HC-615,MD-615

Range: B

Level: 1

Size: S

### Annex 1: Restraint test result

Test Specification: BS EN 14120:2003+A1:2007-6.4

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Movement for upwards (mm)	Movement for downwards (mm)	Maximum movement requirement (mm)	Result
Knee protector	6	15	15	Range A: 30mm Range B: 50mm Range C: 60mm	Pass
		16	16		
		16	17		
Elbow protector	6	13	14	Range A: 20mm Range B: 40mm Range C: 50mm	Pass
		14	15		
		15	15		
Palm protector	6	10	10	Range A: 20mm Range B: 20mm Range C: 20mm	Pass
		10	11		
		11	11		

### Annex 2: Abrasion resistance test result

Test Specification: BS EN 14120:2003+A1:2007-6.5.2

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Test result description	Result
Knee protector	6	Not Perforated	Pass
	7	Not Perforated	
Elbow protector	6	Not Perforated	Pass
	7	Not Perforated	
Palm protector	6	Not Perforated	Pass
	7	Not Perforated	

### Annex 3: Impact strength test result

Test Specification: BS EN 14120:2003+A1:2007-6.6

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Test result description	Result
Knee protector	4	Not break or split	Pass
	5	Not break or split	
Elbow protector	4	Not break or split	Pass
	5	Not break or split	
Palm protector	4	Not break or split	Pass
	5	Not break or split	



### Annex 4: Impact performance test result

Test Specification: BS EN 14120:2003+A1:2007-6.7

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Impact site	Peak force (kN)	Average (kN)	Requirement	Result
					Max. peak force (kN)	
Knee protector	1	1	1.14	1.13	6	Pass
		2	0.96			
	2	3	1.07			
		4	1.20			
	3	5	1.27			
		6	1.16			
Elbow protector	1	1	1.22	1.58	4	Pass
		2	3.25			
	2	3	1.24			
		4	1.04			
	3	5	1.20			
		6	1.54			
Palm protector	1	1	1.02	1.85	3	Pass
		2	1.14			
	2	3	1.14			
		4	4.08			
	3	5	1.21			
		6	2.48			

Item No: MD-610,HC-615,MD-615

Range: B

Level: 1

Size: M

### Annex 1: Restraint test result

Test Specification: BS EN 14120:2003+A1:2007-6.4

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Movement for upwards (mm)	Movement for downwards (mm)	Maximum movement requirement (mm)	Result
Knee protector	6	19	19	Range A: 30mm Range B: 50mm Range C: 60mm	Pass
		19	20		
		20	21		
Elbow protector	6	14	15	Range A: 20mm Range B: 40mm Range C: 50mm	Pass
		15	16		
		16	16		
Palm protector	6	11	11	Range A: 20mm Range B: 20mm Range C: 20mm	Pass
		12	12		
		12	13		



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**Annex 2: Abrasion resistance test result**

Test Specification: BS EN 14120:2003+A1:2007-6.5.2

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Test result description	Result
Knee protector	6	Not Perforated	Pass
	7	Not Perforated	
Elbow protector	6	Not Perforated	Pass
	7	Not Perforated	
Palm protector	6	Not Perforated	Pass
	7	Not Perforated	

**Annex 3: Impact strength test result**

Test Specification: BS EN 14120:2003+A1:2007-6.6

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Test result description	Result
Knee protector	4	Not break or split	Pass
	5	Not break or split	
Elbow protector	4	Not break or split	Pass
	5	Not break or split	
Palm protector	4	Not break or split	Pass
	5	Not break or split	



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### Annex 4: Impact performance test result

Test Specification: BS EN 14120:2003+A1:2007-6.7

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Impact site	Peak force (kN)	Average (kN)	Requirement	Result
					Max. peak force (kN)	
Knee protector	1	1	1.21	2.56	6	Pass
		2	8.54			
	2	3	1.44			
		4	1.28			
	3	5	1.23			
		6	1.67			
Elbow protector	1	1	0.87	0.91	4	Pass
		2	1.40			
	2	3	0.69			
		4	0.66			
	3	5	0.96			
		6	0.85			
Palm protector	1	1	1.23	1.15	3	Pass
		2	1.17			
	2	3	1.20			
		4	1.23			
	3	5	1.08			
		6	1.00			

Item No: MD-610,HC-615,MD-615

Range: B

Level: 1

Size: L

### Annex 1: Restraint test result

Test Specification: BS EN 14120:2003+A1:2007-6.4

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Movement for upwards (mm)	Movement for downwards (mm)	Maximum movement requirement (mm)	Result
Knee protector	6	23	22	Range A: 30mm Range B: 50mm Range C: 60mm	Pass
		24	24		
		25	25		
Elbow protector	6	15	15	Range A: 20mm Range B: 40mm Range C: 50mm	Pass
		17	16		
		17	16		
Palm protector	6	12	12	Range A: 20mm Range B: 20mm Range C: 20mm	Pass
		13	13		
		14	13		



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### Annex 2: Abrasion resistance test result

Test Specification: BS EN 14120:2003+A1:2007-6.5.2

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Test result description	Result
Knee protector	6	Not Perforated	Pass
	7	Not Perforated	
Elbow protector	6	Not Perforated	Pass
	7	Not Perforated	
Palm protector	6	Not Perforated	Pass
	7	Not Perforated	

### Annex 3: Impact strength test result

Test Specification: BS EN 14120:2003+A1:2007-6.6

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Test result description	Result
Knee protector	4	Not break or split	Pass
	5	Not break or split	
Elbow protector	4	Not break or split	Pass
	5	Not break or split	
Palm protector	4	Not break or split	Pass
	5	Not break or split	



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### Annex 4: Impact performance test result

Test Specification: BS EN 14120:2003+A1:2007-6.7

Ambient temperature at time of test: 23.2 °C

Style	Sample No.	Impact site	Peak force (kN)	Average (kN)	Requirement	Result
					Max. peak force (kN)	
Knee protector	1	1	1.08	1.54	6	Pass
		2	3.72			
	2	3	1.18			
		4	1.14			
	3	5	1.08			
		6	1.02			
Elbow protector	1	1	1.02	1.03	4	Pass
		2	1.08			
	2	3	0.87			
		4	0.99			
	3	5	1.16			
		6	1.07			
Palm protector	1	1	1.38	2.60	3	Pass
		2	4.15			
	2	3	1.28			
		4	3.44			
	3	5	1.43			
		6	3.90			



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<p>Front view &amp; Back view L</p>	
<p>Test areas &amp; Test sites S</p>	



<p>Test areas &amp; Test sites M</p>	
<p>Test areas &amp; Test sites L</p>	

\*\*\*End of Report\*\*\*

