



TEST REPORT

Report No.: H210701362_1

RM 1801-02 & RM 2010,
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23 July 2021

APPLICANT: MECHANIX WEAR LLC (C41729)

28525 WITHERSPOON PARKWAY VALENCIA,
CA 91355
...
UNITED STATES

Date of receipt : 13 July 2021
Testing period : 13 July 2021
: 23 July 2021

Buyer: ---

Reference no. : 3471
Style / Article no. : 3471
Test(s) requested : ASTM F2878-19
Service : REGULAR
Brand / Section : ---
Season : ---
End use : ---
Factory name : ---
Factory code : ---

Previous report : ---
Product category : ---
Product type : ---
Test stage : FIRST TEST
Supplier name : ---
Exported to : ---

1. Conclusion:

	Tests description	Conformity
1	• Protective clothing material resistance to hypodermic needle puncture	Level 2

Pass: requirements met Fail: requirements not met None: no requirement for this test N/A: not applicable

- The test was carried out by external accredited laboratory, not within their accreditation scope.

Approved by

John CHEUNG FAI CHEONG
Laboratory Supervisor

23 July 2021

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2. Sample(s) description assigned by laboratory:

<u>Size</u>	<u>Analyzed product</u>	<u>Description</u>	<u>Sample information</u>
	14 PAIRS OF GLOVES	Palm (w/palm lining), Material:1st layer: Goatskin, Thickness: 0.8mm, 2nd layer: Kevlar/Polyester/Cotton, 3rd layer: Polyester (w/UHMWPE/Aramid/Metal mesh lining)	Black(Yellow/Black Lining)



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3. 14 PAIRS OF GLOVES/

Palm (w/palm lining), Material:1st layer: Goatskin, Thickness: 0.8mm, 2nd layer: Kevlar/Polyester/Cotton, 3rd layer: Polyester (w/UHMWPE/Aramid/Metal mesh lining) : Black(Yellow/Black Lining)

	Method	Client Requirement	Unit	Result	Conformity
● Protective clothing material resistance to hypodermic needle puncture <i>*Level with reference to ANSI/ISEA 105 - Table 3</i> Tested material Thickness Thickness (2) Thickness (3) Thickness (4) Thickness (5) Thickness (6) Thickness (7) Thickness (8) Thickness (9) Thickness (10) Thickness (11) Thickness (12) Average thickness Used gauge Manufacturer Batch number Maximum puncture force Maximum puncture force (2) Maximum puncture force (3) Maximum puncture force (4) Maximum puncture force (5) Maximum puncture force (6) Maximum puncture force (7) Maximum puncture force (8) Maximum puncture force (9) Maximum puncture force (10)	CTC in house				
			mm	2.56	
			mm	2.47	
			mm	2.43	
			mm	2.45	
			mm	2.40	
			mm	2.60	
			mm	2.49	
			mm	2.57	
			mm	2.52	
			mm	2.58	
			mm	2.55	
			mm	2.40	
			mm	2.50	
				25 G – 25.4 mm	
				BD Microlance 3	
			N	3.68	
			N	3.82	
			N	4.96	
			N	5.08	
			N	4.57	
			N	5.96	
			N	6.43	
			N	4.67	
			N	5.70	
			N	5.06	

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	Method	Client Requirement	Unit	Result	Conformity
Maximum puncture force (11)			N	4.85	
Maximum puncture force (12)			N	5.75	
Average maximum force			N	5.04	
Maximum force – Standard deviation				0.82	
Level				2	

Classification for Hypodermic Needle Puncture Resistance

Level	Puncture (Newtons)
0	<2
1	≥2
2	≥4
3	≥6
4	≥8
5	≥10

END OF TEST REPORT

- : The test was carried out by external accredited laboratory, not within their accreditation scope.