

INTERNATIONAL TESTING CENTRE
Accreditation for ISO/IEC 17025: 2005 by Dakks, Germany

TEST CERTIFICATE

Supplier : Hillson Footwear Pvt. Ltd.
Contact : Mr. Dev
Material : PVC Knee Boot (Size - 8)
P.O No. : 05830125 (40), Dt. - 31.03.2021
Specification : IS 12254 : 1993
Job Start Date : 07.06.2021

Job No. : 2K2106008
Date of Entry : 03.06.2021
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Completion Date : 15.06.2021

Laboratory Environment
Temperature 27+/-2°C
Relative Humidity 65+/-5%
The sample was conditioned for 48 hours.

S.No	Test Name	Clause	Value	Requirement	Conformity
A.	Materials : 1. Fabric				
1.	Breaking Strength	4.1	Warp: 342 N, Weft :324 N	150 N (min.)	
B.	Complete Footwear	4.3	Conformed to IS 5852:1992 (type-2)	Shall be conforming to IS 5852:1992 (type-2)	Conforms
1.	Shape and Design	5.1	Knee Boot	Knee Boot	Conforms
2	Soling Pattern	5.2	There appear to be no such features which may accelerate pre mature crack formation	There should be no continuous lateral patterns or features which may accelerate pre mature crack formation	Conforms
3.	Thickness	5.3.1	>1.0 mm	1.0 mm (min)at any point round the top circumference of the boot excluding the raised top edge reinforcement	Conforms
			>3 mm	3.0 mm (min)at any point on the lowest part of the upper adjacent to soling & heel	Conforms
4	Hardness	5.4	Upper-59 Sole-66	Upper : 42-59 Sole : 50-67	Conforms
5	Relative density	5.5	1.20	1.25 (maximum)	Conforms
6	Volatility (mean loss in mass)	5.6	Upper- 1.35 % Sole- 1.17 %	Upper-2 % (maximum) Sole-2 % (maximum)	Conforms
7	Tensile Strength	5.8			Conforms
i.	Stress at 100 % Elongation	5.8.1	Upper- 3.2 Mpa Sole-2.8 Mpa	Upper-1.3-4.6 Mpa Sole-2.1-5.0 Mpa	Conforms
ii.	Minimum elongation at break	5.8.1	Upper-255 % Sole-305 %	Upper-250 % (minimum) Sole-300 % (minimum)	Conforms
8	Resistance to Cut growth (for Sole)	5.9	50 % cut growth observed at 150,000 cycles.	300 % (maximum) cut growth at 150,000 cycles.	Conforms
9	Resistance to flexing for upper	5.10	No crack was observed till 150,000 cycles.	No crack till 150,000 cycles.	Conforms
10	Leg Height	5.11	375 mm	330-429 mm	Conforms
11	Leakage Resistance	5.12	No leakage observed	No leakage with air at a pressure 0.015 Mpa	Conforms
12	Finish	5.14	Free from injurious folds, wrinkles, blisters, foreign matters.	Shall be free from injurious folds, wrinkles, blisters, foreign matters.	Conforms
13	Performance	5.15	25.0 mm	13.5 mm (min.)	Conforms

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FOOTWEAR DESIGN & DEVELOPMENT INSTITUTE
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Thickness requirement of different components (Clause 5.3.2)

S.No	Component Name	Unit	Value	Requirement	Conformity
a.	Boot upper	mm	2.7	1.5 (min.)	Conforms
b.	Foxing Strip	mm	NA (Foxing not Present)		
c.	Boot Bottom -				
i.	Full Thickness - Over Cleat	mm	13	12 (min.)	Conforms
	- Between Cleat	mm	8	7 (min.)	Conforms
ii.	Outsole only - Over Cleat	mm	8.5	8 (min.)	Conforms
	- Between Cleat	mm	8	3 (min.)	Conforms
d.	Heel				
i.	Full thickness - Over Cleat	mm	29	25 (min.)	Conforms
	- Between Cleat	mm	21	19 (min.)	Conforms
ii.	Wearing surface to filler Block	mm	NA (Filler Block not Present)		


Rajesh Mishra
(Senior Technologist)




Shailendra Saxena
Chief Technologist & Head - Physical Laboratory

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