

Shirley

Confidential Report

Our Ref: E-024690(A)

Date: 30/6/2022
Our Ref: E-024690(A)
Your Ref: Email 8 February 2022
Client: Nap-Ease Ltd
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Address: Trading as LittleLamb
Glanamman Workshops
Units 5 & 6
Tabernacle Rd
Glamman
Ammanford
SA18 2YB
FAO Alannah Pfaff

Job Title: Absorption Testing of Nappy Products

Clients Order Ref: Email 8 February 2022

Date of Receipt: 11 February 2022

Description of Sample(s): Various samples of nappy products, supplied with reference information as given in the body of the report

Work Requested: Determination of absorption properties in accordance with the BSISO 11948-1 method

This report relates only to the items tested. Enquiries concerning this report should be addressed to Customer Services

Where required to make a judgement to any pass/fail criteria, an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule. See our decision rules Policy (<http://www.bttg.co.uk/decision-rules-policy>) for further information

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LABORATORY TESTING AND RESULTS

Urine-absorbing aids – Part 1: Whole product testing (BSISO 11948-1:1996)

This part of BSISO 11948 specifies a method for determining the absorption capacity of the absorbent core of body-worn urine-absorbing aids. The principle of the method is that the urine-absorbing aid is weighed dry, soaked in test liquid, drained and weighed wet. Subtraction of the dry mass from the wet mass gives the absorption capacity.

Methodology

The product under test is weighed after conditioning in an atmosphere of (23±2)°C and (50±5)% relative humidity for 24-36 hours prior to testing. The product is placed onto a stainless steel mesh drainage screen, maintained horizontally, and lowered to a depth of 100mm into a test liquid comprising deionised water into which 9g/l sodium chloride has been dissolved, the liquid being maintained at ~23°C. After 5 minutes soaking the drainage screen with the product on it is raised above the level of the liquid, maintained horizontally, to allow drainage of excess water for a period of 5 minutes. The product is then removed and weighed. Subtraction of the dry mass from the wet mass gives the absorption capacity.


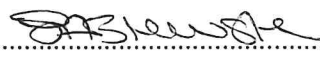
Test results

Product	Dry mass (g)	Wet mass (g)	Absorption capacity (g)
Hemp shaped booster No.1	36.2	215.0	178.8
Hemp shaped booster No.2	37.9	205.6	167.7
Hemp shaped booster No.3	39.0	216.9	177.9
Hemp shaped booster No.4	36.9	214.0	177.1
Hemp shaped booster No.5	36.9	203.5	166.6
Mean value	37.4	211.0	173.6
Standard deviation	1.1	6.0	6.0

Product	Dry mass (g)	Wet mass (g)	Absorption capacity (g)
One Size Pocket with inserts No.1	121.3	615.0	493.7
One Size Pocket with inserts No.2	125.2	636.6	511.4
One Size Pocket with inserts No.3	123.1	630.9	507.8
One Size Pocket with inserts No.4	123.2	623.7	500.5
One Size Pocket with inserts No.5	124.7	617.9	493.2
Mean value	123.5	624.8	501.3
Standard deviation	1.5	9.0	8.2

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Product	Dry mass (g)	Wet mass (g)	Absorption capacity (g)
Bamboo nappy No.1	129.6	841.8	712.2

Reported by: Ian Strudwick
Technical Textiles SpecialistCountersigned by: Jennie Brewster
Senior Laboratory Technician