

ANALYSIS REPORT

Report No. : **2013890E** Report Date : 07/07/2020

Applicant : UNIVERSAL SERT F KASYON VE GÖZET M H ZMETLER T CARET LTD. T .

Address : Necip Fazıl Bulvarı Keyap Sitesi E2 Blok No:44/84 Yukarı Dudullu
Ümraniye/ stanbul/Turkey

Sample : Overalls Sample Code: 2361

Sample Package : Poly packing

Sample Amount : 5 pieces

Sampling Point : -

Sampling Date : 18/06/2020

Sample Lot No. : -

Sample Carrying Conditions / Preservation Technique : -

Production Date : -

Packing Date : -

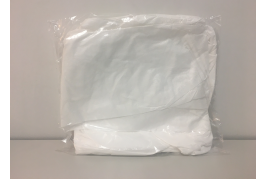
Expire Date : -

Producer Company : Çam Konfeksiyon ve San. Tic. Ltd. ti.

Sample Receiving Time : 18/06/2020 15:30:00

Analysis Beginning Time : 19/06/2020 10:00:00

Analysis Completion Time : 07/07/2020



Following analysis results were obtained from the specimen which was delivered to Çevre Laboratory by hand to hand

| Parameters | Unit | Finding | Method | Information |
|--|------|---------|-----------|-------------|
| Sentetik Kanın Nüfuzuna Karşı Direnç | | | | |
| The Average Thickness of the Material Tested | mm | 0,2 | ISO 16603 | 148 |
| The Average Mass of the Material Tested | g | 0,312 | ISO 16603 | 148 |
| Sample Test 1: 0 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 1: 1,75 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 1: 3,5 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 1: 7 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 1: 14 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 1: 20 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 2: 0 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 2: 1,75 kPa | - | Succeed | ISO 16603 | 149 |

Merve B RAH
Assistant Laboratory Responsible of
Microbiology Laboratory

Approved by
07/07/2020
Ömer Yasin BALIK
Laboratory Manager

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| Parameters | Unit | Finding | Method | Information |
|---------------------------------------|---------|---------------------|-----------|-------------|
| Sample Test 2: 3,5 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 2: 7 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 2: 14 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 2: 20 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 3: 0 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 3: 1,75 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 3: 3,5 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 3: 7 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 3: 14 kPa | - | Succeed | ISO 16603 | 149 |
| Sample Test 3: 20 kPa | - | Succeed | ISO 16603 | 149 |
| The Procedure Selected | - | D | ISO 16603 | |
| Microbial Penetration - Dry Bacterium | log cfu | <1 | ISO 22612 | 150, 151 |
| Pathogen Penetration | | | | |
| The Procedure Selected | - | D | ISO 16604 | 155 |
| Hydrostatic Pressure | kPa | 20 | ISO 16604 | 156 |
| Test Spicemen 1 | - | Succeed | ISO 16604 | 157 |
| Test Spicemen 2 | - | Succeed | ISO 16604 | 157 |
| Test Spicemen 3 | - | Succeed | ISO 16604 | 157 |
| Pre-test Bacteriophage Titer | pfu/mL | 3,5*10 ⁸ | ISO 16604 | |
| Post-test Bacteriophage Titer | pfu/mL | 2,9*10 ⁸ | ISO 16604 | |
| Negative Control | - | Succeed | ISO 16604 | |
| Positive Control | - | Fail | ISO 16604 | |
| Microbial Penetration - Wet Bacterium | | | | |
| Test Spicemen 1 - Colony Count | cfu | <1 | ISO 22610 | 154 |
| Test Spicemen 2 - Colony Count | cfu | <1 | ISO 22610 | 154 |
| Test Spicemen 3 - Colony Count | cfu | <1 | ISO 22610 | 154 |
| Test Spicemen 4 - Colony Count | cfu | <1 | ISO 22610 | 154 |
| Test Spicemen 5 - Colony Count | cfu | <1 | ISO 22610 | 154 |
| Test Spicemen 1 - Barrier Index | - | 6 | ISO 22610 | 154 |



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| Parameters | Unit | Finding | Method | Information |
|---|-----------|---------------------|-----------|-------------|
| Test Spicemen 2 - Barrier Index | - | 6 | ISO 22610 | 154 |
| Test Spicemen 3 - Barrier Index | - | 6 | ISO 22610 | 154 |
| Test Spicemen 4 - Barrier Index | - | 6 | ISO 22610 | 154 |
| Test Spicemen 5 - Barrier Index | - | 6 | ISO 22610 | 154 |
| Test Spicemen 1 - Percentage of Penetration | % | 0 | ISO 22610 | 154 |
| Test Spicemen 2 - Percentage of Penetration | % | 0 | ISO 22610 | 154 |
| Test Spicemen 3 - Percentage of Penetration | % | 0 | ISO 22610 | 154 |
| Test Spicemen 4 - Percentage of Penetration | % | 0 | ISO 22610 | 154 |
| Test Spicemen 5 - Percentage of Penetration | % | 0 | ISO 22610 | 154 |
| Average Penetration Percentage | % | 0 | ISO 22610 | |
| Bacillus atrophaeus Concentration | spores/mL | 5,7*10 ³ | ISO 22610 | |

Source of Limit Ranges : El ve Kol Koruması ve Can Yele i Dahil Koruyucu Kıyafetler (EN 14126)

A: Acceptable NA: Not Acceptable

MU: Measurement Uncertainty

Method ISO : International Organization for Standardization

Information 148 : Test sample-1 is sampled from the right arm, test sample-2 left leg, test sample-3 body part. The thickness and mass given are the average of the results for these three samples.

149 : The retaining screen has 50% open area

150 : Test Conditions : 65±5 relative humidity and 20±2°C
ATCC 9372 Bacillus subtilis spores were used in the concentration of ethyl alcohol.
Talc concentration 10⁸ cfu/g
200 mm x 200 mm 12 test pieces used
The vibrator was operated in an air flow with a vibration frequency of 20800 per minute.

151 : EN 14126 standard provides Class 3 values according to Table 4.

154 : Test Conditions : 65±5 relative humidity and 20±2°C minimum 24 hours
The distance to the distance agar-to-brim is 3.0 mm.
25 cm x 25 cm 5 test pieces were used.
The tests were carried out from the outside of the sample.
ATCC 9372 Bacillus atrophaeus spore suspension was used.
Incubator Control <4 cfu
Test Environment Control <25 cfu

155 : Test Conditions: Minimum 24 hours at 21 ± 5 ° C and 60 ± 10% relative humidity
Sample size and number: 3 test samples in size 75x75mm
Name of test microorganism: ATCC 13706-B1 Escherichia coli bacteriophage Phi X174
PFU: Plate forming unit

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156 : The application pressure was chosen over the values obtained as a result of the procedure applied according to the ISO 16603 method.

157 : Test sample-1 right arm, test sample-2 left leg, test sample-3 were sampled from the body part.

Note

1. When request, the conformit assessment is carried out in accordance with the legal regulations and standards or the decision rules which are agreed with the customer.
2. Descriptive information about the samples / sampling in the analysis report has been declared by the customer. Our laboratory is not responsible for the legal losses.
3. Analysis report covers samples/sampling that comes to the laboratory.
4. This report and results don't not be copied and printed partially or completely without permission of Cevre Industrial Analysis Laboratory for any commercial and advertising purposes.
5. This report shall not be used official purposes related to Enviromental Regulations.
6. The test report without sign is not valid.

End of Report



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