Test
TS EN ISO/IEC 17025
AB-1183-T

AB-1183-T

M-2020-00317

08.10.2020

MNA LABORATORIES
TEST REPORT

Report No: M-2020-00317	Date: 08.10.2020	Page: 1 / 7	Rev:

Purpose of Analysis : SPECIAL REQUEST
Sample Type : PROTECTIVE CLOTHING
Sample Send Org. : STERİL SAĞLIK ÜRÜNLERİ
Manufacturer Name : STERİL SAĞLIK ÜRÜNLERİ
Analysis Date : 17.09.2020
Sample Quantity : 20 pieces
Other informations :

Brand :
Model :
Sampler : CUSTOMER

No	Tests	Results	Limit Value	Method	Evaluation	Physical Condition
1	Abrasion Resistance	10 (Cycle)	>10 Cycle	BS EN 14325 Part 4.4	PERFORMANCE LEVEL:1	
2		10 (Cycle)	>10 Cycle	BS EN 14325 Part 4.4		
3		10 (Cycle)	>10 Cycle	BS EN 14325 Part 4.4		
4		10 (Cycle)	>10 Cycle	BS EN 14325 Part 4.4		
5	Tear Resistance-Trapezoidal	79,93 (Newton)	>20 N	EN ISO 9073-4+ BS EN 14325 Part 4.7	PERFORMANCE LEVEL:2	
6		68,01 (Newton)	>20 N	EN ISO 9073-4+ BS EN 14325 Part 4.7		
7		86,08 (Newton)	>20 N	EN ISO 9073-4+ BS EN 14325 Part 4.7		
8		86,28 (Newton)	>20 N	EN ISO 9073-4+ BS EN 14325 Part 4.7		
9		80,07 (Newton)	>20 N	EN ISO 9073-4+ BS EN 14325 Part 4.7		
10		38,97 (Newton)	>20 N	EN ISO 9073-4+ BS EN 14325 Part 4.7		
11		37,68 (Newton)	>20 N	EN ISO 9073-4+ BS EN 14325 Part 4.7		
12		41,09 (Newton)	>20 N	EN ISO 9073-4+ BS EN 14325 Part 4.7		
13		42,71 (Newton)	>20 N	EN ISO 9073-4+ BS EN 14325 Part 4.7		
14		40,22 (Newton)	>20 N	EN ISO 9073-4+ BS EN 14325 Part 4.7		
15	Puncture Reistance	5,59 (Newton)	> 5 N	EN 863+ BS EN 14325 Part 4.10	PERFORMANCE LEVEL:1	
16		5,80 (Newton)	> 5 N	EN 863+ BS EN 14325 Part 4.10		
17		5,19 (Newton)	> 5 N	EN 863+ BS EN 14325 Part 4.10		
18		6,04 (Newton)	> 5 N	EN 863+ BS EN 14325 Part 4.10		

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19	Penetration by Liquids-Sulphuric Acid	Penetration	0,5 (%)	<1 %	EN ISO 6530+ BS EN 14325 Part4.12,13	PERFORMANCE LEVEL:3	
		Repellency	98,2 (%)	>90 %	EN ISO 6530+ BS EN 14325 Part4.12,13		
		Absorption	- (%)		EN ISO 6530+ BS EN 14325 Part4.12,13	-	
20	Penetration by Liquids-Sodium Hydroxide	Penetration	0,3 (%)	<1 %	EN ISO 6530+ BS EN 14325 Part4.12,13	PERFORMANCE LEVEL:3	
		Repellency	99,1 (%)	>90 %	EN ISO 6530+ BS EN 14325 Part4.12,13		
		Absorption	- (%)		EN ISO 6530+ BS EN 14325 Part4.12,13	-	
21	Wet Bacterial Penetration (1. sample)	1. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part4.1.4.2		
		2. plate	6 (Colony)		ISO 22610:2018 + TS EN 14126 Part4.1.4.2		
		3. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part4.1.4.2		
		4. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part4.1.4.2		
		5. plate	6 (Colony)		ISO 22610:2018 + TS EN 14126 Part4.1.4.2		
		6. plate	- (Colony)		ISO 22610:2018 + TS EN 14126 Part4.1.4.2		
		% Penetration	0,23 (%)		ISO 22610:2018 + TS EN 14126 Part4.1.4.2		
22	Wet Bacterial Penetration (2. sample)	1. plate	6 (Colony)		ISO 22610:2018 + TS EN 14126 Part4.1.4.2		
		2. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part4.1.4.2		

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22	Wet Bacterial Penetration (2. sample)	3. plate	7 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		4. plate	6 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		5. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		6. plate	- (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		% Penetration	0,24 (%)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2	-	
23	Wet Bacterial Penetration (3. sample)	1. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		2. plate	4 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		3. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		4. plate	4 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		5. plate	6 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		6. plate	- (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		% Penetration	0,20 (%)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2	-	
24	Wet Bacterial Penetration (4. sample)	1. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		

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Purpose of Analysis : SPECIAL REQUEST
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Sample Send Org. : STERİL SAĞLIK ÜRÜNLERİ
Manufacturer Name : STERİL SAĞLIK ÜRÜNLERİ
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Sample Quantity : 20 pieces
Other informations :

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Sampler : CUSTOMER

24	Wet Bacterial Penetration (4. sample)	2. plate	6 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		3. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		4. plate	6 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		5. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		6. plate	- (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		% Penetration	0,23 (%)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2	-	
25	Wet Bacterial Penetration (5. sample)	1. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		2. plate	4 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		3. plate	5 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		4. plate	6 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		5. plate	6 (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		6. plate	- (Colony)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		
		% Penetration	0,22 (%)		ISO 22610:2018 + TS EN 14126 Part 4.1.4.2		

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Purpose of Analysis : SPECIAL REQUEST
Sample Type : PROTECTIVE CLOTHING
Sample Send Org. : STERİL SAĞLIK ÜRÜNLERİ
Manufacturer Name : STERİL SAĞLIK ÜRÜNLERİ
Analysis Date : 17.09.2020
Sample Quantity : 20 pieces
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Sampler : CUSTOMER

25	Wet Bacterial Penetration (5. sample)	Total Penetration %	0,22 (%)	t≤ 15 dakika	ISO 22610:2018 + TS EN 14126 Part 4.1.4.2	PERFORMANCE LEVEL:1
26	Seam Strength	65,94 (Newton)		>50 N	EN ISO 13935-2	PERFORMANCE LEVEL:2
27		77,77 (Newton)		>50 N	EN ISO 13935-2	
28		78,81 (Newton)		>50 N	EN ISO 13935-2	
29		67,09 (Newton)		>50 N	EN ISO 13935-2	
30		91,15 (Newton)		>50 N	EN ISO 13935-2	
31		88,06 (Newton)		>50 N	EN ISO 13935-2	
32	Tensile Strength	87,92 (Newton)		>30 N	ISO 13934-1	PERFORMANCE LEVEL:1
33		77,10 (Newton)		>30 N	ISO 13934-1	
34		86,05 (Newton)		>30 N	ISO 13934-1	
35		85,78 (Newton)		>30 N	ISO 13934-1	
36		89,99 (Newton)		>30 N	ISO 13934-1	
37		45,99 (Newton)		>30 N	ISO 13934-1	
38		45,12 (Newton)		>30 N	ISO 13934-1	
39		45,07 (Newton)		>30 N	ISO 13934-1	
40		45,07 (Newton)		>30 N	ISO 13934-1	
41		48,50 (Newton)		>30 N	ISO 13934-1	
42	Dry Microbial Penetration	2,09 (log cfu)		2< log cfu ≤ 3	BS EN ISO 22612+ TS EN 14126 Part 4.1.4.4	PERFORMANCE LEVEL:1

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Purpose of Analysis	: SPECIAL REQUEST	**Brand** :	
Sample Type	: PROTECTIVE CLOTHING	**Model** :	
Sample Send Org.	: STERİL SAĞLIK ÜRÜNLERİ	**Sampler** :	CUSTOMER
Manufacturer Name	: STERİL SAĞLIK ÜRÜNLERİ		
Analysis Date	: 17.09.2020		
Sample Quantity	: 20 pieces		
Other informations	:		

43	Penetration By Blood-Borne Pathogens(Bacteriophage)	0 (PFU/ml)	3,5 kPa	BS ISO 16604+ TS EN 14126 Part 4.1.4.1	PERFORMANCE LEVEL:3	
44		0 (PFU/ml)	3,5 kPa	BS ISO 16604+ TS EN 14126 Part 4.1.4.1		
45		0 (PFU/ml)	3,5 kPa	BS ISO 16604+ TS EN 14126 Part 4.1.4.1		
46	Determination of pH - Textile*	7,07	3.5 < Result < 9.5	EN 420 + A1 Part 4.3.2 TS EN ISO 3071	PASS	

SAMPLE PLACE

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TEST REPORT

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Purpose of Analysis	:	SPECIAL REQUEST	**Brand**	:	
Sample Type	:	PROTECTIVE CLOTHING	**Model**	:	
Sample Send Org.	:	STERİL SAĞLIK ÜRÜNLERİ	**Sampler**	:	CUSTOMER
Manufacturer Name	:	STERİL SAĞLIK ÜRÜNLERİ			
Analysis Date	:	17.09.2020			
Sample Quantity	:	20 pieces			
Other informations	:				

Operating as an experimental laboratory, MNA Laboratories have been accredited by TURKAK with AB-1183-T and TS_EN_ISO / IEC_17025: 2017 standard. Turkish Accreditation Agency (TÜRKAK) signed a multilateral agreement with the European Accreditation Association (EA) on the recognition of test reports and a mutual recognition agreement with the International Laboratory Accreditation Association (ILAC).

*** Analysis is under accreditation.**

Note :

1. No part of this analysis report can be used alone or separately, and may not be partially copied or reproduced, used to third parties and as a means of advertising without the written permission of the laboratory.
2. Analysis results are valid for the above mentioned sample sent by MNA Laboratory company / institution / person. It may not represent the whole.
3. Unsigned and unsealed reports are invalid.
4. This analysis report cannot be used in judicial-administrative procedures and for advertising purposes.
5. Results are valid for the sample as received.
6. The decision rule is the rule that determines how measurement uncertainty is taken into account when specifying the PASS density to a specified specification. According to the TLM-052 Decision Rule Implementation instruction, the Decision Rule Implementation Method selected in agreement with CUSTOMER is clearly stated in the report.
7. Limit Values are determined by taking from analysis methods.
8. The laboratory is not responsible if the information provided by the CUSTOMER affects the validity of the results.
9. Test and / or measurement results, expanded measurement uncertainties (if any) and test methods are given in the following pa ges, which are the supplementary part of this certificate.
10. Water Repellency Determination Hydrostatic Pressure Determination T S ISO 811 (Hydrostatic Pressure Tester E / N: 53) Analysis, Seam Strength EN ISO 13965-2 (Strength Test Device E / N: 50) Analysis and resistance to liquid chemical permeation TS EN 659 -A1 Part 3.18 (Liquid Chemical Transfer Device E / N: 107) Analysis is carried out in the conditioning room and ISO 139 PART 3.2
conditions (23 ± 2 ° C temperature and 50 ± 4% relative humidity) are applied for ambient conditions.
11. List of phthalates analyzed is below.
Di-iso-nonyl phthalate (DINP), CAS number: 28553-12-0 or 68515-48-0
Di- (2-ethylhexyl) phthalate (DEHP), CAS number: 117-81-7
Di-n-octyl phthalate (DNOP), CAS number: 117-84-0
Di-iso-decyl phthalate (DIDP), CAS number: 26761-40-0 or 68515-49-1
Butyl benzyl phthalate (BBP), CAS number: 85-68-7
Di-butyl phthalate (DBP), CAS number: 84-74-2

Selin GERGİN
Sampling and Reporting Officer

Erhan ÜSTÜNEL
PPE Lab Responsible

Confirmed
08.10.2020
Volkan AKIN
Laboratory Manager

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