



REPORT

EKOTEKS 1207883-Add

REPORT NUMBER:	1207883-Add
RECEIPT DATE:	15.02.2017
ISSUE DATE:	28.02.2017
BUYER NAME:	-
CLIENT NAME:	
ADRESS:	
CONTACT PERSON:	

SAMPLE DESCRIPTION:	M105 (100% PES WHITE MEMBRANE FABRIC)
SAMPLING:	Not specified
ORDER NUMBER:	-
ARTICLE NUMBER:	-
END-USE:	-
CARE LABEL:	Not given.

REQUIRED TESTS	RESULT	COMMENTS
PHYSICAL PROPERTIES TESTS		
Tensile Strength	P	
Tear Strength ⁽¹⁾	-	
Fabric Weight	P	
Fabric Width	P	
Dimensional Stability to Washing	P	
Fibre Composition (Surface)	P	
Determination of Material (Membrane coating)	P	
Spray Test (Original)	P	
COLOUR FASTNESS TESTS		
Colour Fastness to Washing	P	
Colour Fastness to Rubbing	P	
Colour Fastness to Dry Cleaning (Colour change)	P	
Colour Fastness to Water	P	
Colour Fastness to Perspiration (Colour change)	P	
Colour Fastness to Hot Pressing (Colour change)	P	

REMARK: This report can not be reproduced except in full, without written approval of the laboratory. The results given in this report belong to the received sample. Original samples are kept for 3 months and all technical records are kept for 5 years unless otherwise specified. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95 %. Tests marked (*) in this report are not included in the DakkS Accreditation Scedule for this Laboratory.

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Supervisor

Controlled by
Melek Zengin

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Technical Manager



Cert. No: 0108248

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Deutsche
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D-PL-14478-01-00



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TEST RESULTS

TENSILE STRENGTH ; ISO 13934-1:1999
Instron 4411.(100mm/dk). Strip method.
Performed in the conditioned room. (20±2°C - 65% ±4)

	<u>RESULT</u>
Weft	154.4 daN
Warp	89.7 daN

Total uncertainty(for load):±1,0%

TEAR STRENGTH; TS EN ISO 13937-3:2002(*)
Instron 4411.(100 mm/min).
Performed in the conditioned room (20±2°C - 65% ±4)

	<u>RESULT</u>	<u>REQUIREMENT</u>
Weft	4.3 daN	-
Warp	1.8 daN	-

FABRIC WEIGHT; ISO 3801:1977
Performed in the conditioned room (20±2°C-65%±4).

RESULT
161.4 g/m²

Total uncertainty =± %1

FABRIC WIDTH; EN 1773:1996 (*)
Performed in the conditioned room (20±2°C-65%±4).

	<u>RESULT</u>	<u>REQUIREMENT</u>
Between selvages	149.5 cm	150±2 cm

DIMENSIONAL STABILITY TO WASHING; ISO 6330:2000
After 3 washes. Wascator 7A @ 40°C, tumble dry.
Ece A+Sodyum perborat+TAED detergent, 2 kg load. 100 % polyester white loading fabric pieces .

	<u>RESULT</u>	<u>REQUIREMENT</u>
Width	-0.1 %	Max %3
Length	-1.1 %	Max %3

Total uncertainty= ± % 2,1



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FIBRE COMPOSITION; ISO 1833:2006

	<u>RESULT</u>	<u>REQUIREMENT</u>
Surface;	100 % Polyester	100 % Polyester

DETERMINATION OF MATERIAL (*)
FT-IR. Spectrophotometer Test Machine.

	<u>RESULT</u>	<u>REQUIREMENT</u>
Membrane coating	100 % PU	100 % PU

SPRAY TEST; ISO 4920:1981
Performed in the conditioned room (20±2°C-65%±4)
Temperature of water 20±2°C.

Original	<u>RESULT</u>	<u>REQUIREMENT</u>
1.	ISO 4-5	Min 4
2.	ISO 4-5	
3.	ISO 4-5	

Total uncertainty:±0



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WATER PERMEABILITY; ISO 811:1981

Performed in the conditioned room (20±2°C-65%±4)
Temperature of water 20±2°C. Pressure increase ratio 60 mbar/min.

RESULT

7915 mm head of water

REQUIREMENT

Min 8000 mm head of water

Total uncertainty: % 6.5

COLOUR FASTNESS TO:

WASHING; ISO 105 C06:2010

A2S 40°C. Gyrowash. ECE+Sodium Perborate. DW multifiber. 10 steel ball.
Evaluated with ISO 105 A02 and ISO 105 A03 standart grey scale.

RESULT

4-5

REQUIREMENT

Min 4

Colour Change

Staining

Acetate	Cotton	Nylon6.6	Polyester	Acrylic	Wool
4-5	4-5	4-5	4-5	4-5	4-5

Min 4

Total uncertainty = ± 0,5 grade



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RUBBING; ISO 105 X12:2001

Evaluated with ISO 105 A03 standard grey scale .
Performed in the conditioned room (20±2°C-65%±4).

	<u>RESULT</u>	<u>REQUIREMENT</u>
Dry	4-5	Min 3
Wet	4-5	Min 3

Total uncertainty= ± 0,5 grade

DRY CLEANING; ISO 105 D01:2010

Gyrowash.Perchloroethylene. 30±2°C. 30 minutes. DW multifiber. 12 steel disc.
Evaluated with ISO 105 A02 and ISO 105 A03 standart grey scale.

	<u>RESULT</u>	<u>REQUIREMENT</u>
Colour Change	4-5	Min 4

Staining	Acetate	Cotton	Nylon6.6	Polyester	Acrylic	Wool	
	4-5	4-5	4-5	4-5	4-5	4-5	-

Total uncertainty = ± 0,5 grade

WATER; ISO 105 E01:2010

DW multifiber. Evaluated with ISO 105 A02 and ISO 105 A03 standart grey scale .

	<u>RESULT</u>	<u>REQUIREMENT</u>
Colour Change	4-5	Min 4

Staining	Acetate	Cotton	Nylon6.6	Polyester	Acrylic	Wool	
	4-5	4-5	4	4-5	4-5	4-5	Min 4

Total uncertainty= ± 0,5 grade

PERSPIRATION ; ISO 105 E04 :2008

37±2°C@4 hours. DW multifiber.
Evaluated with ISO 105 A02 ve ISO 105 A03 standart gry scale.

	<u>RESULT</u>	<u>REQUIREMENT</u>
Acidic& Alkaline Colour Change	4-5	Min 4

Staining	Acetate	Cotton	Nylon6.6	Polyester	Acrylic	Wool	
	4-5	4-5	4-5	4-5	4-5	4-5	-

Total uncertainty= ± 0,5 grade



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HOT PRESSING; ISO 105-X11:1994

Atlas Scorch Tester.110±2°C.

15 seconds.Performed in the conditioned room (20±2°C-65%±4)

Evaluated with ISO 105 A02 and ISO 105 A03 standart grey scale.

Before Conditioned	RESULT		REQUIREMENT
	<u>Colour Change</u>	<u>Staining</u>	
Dry Press	4-5	-	Colour Change: Min 4 Staining: -
Steam Presses	4-5	4-5	
Wet Press	4-5	4-5	
After Conditioned			Colour Change: Min 4 Staining: -
Dry Press	4-5	-	
Steam Presses	4-5	4-5	
Wet Press	4-5	4-5	

Total uncertainty= ± 0,5 grade

COLOUR FASTNESS RATING

	COLOUR CHANGE
5	Negligible or no change
4	Slightly changed
3	Noticeably changed
2	Considerably changed
1	Much changed

	COLOUR STAINING
5	Negligible or no staining
4	Slightly stained
3	Noticeably stained
2	Considerably stained
1	Much stained

SPRAY TEST RATING

100 ISO 5	No sticking or wetting of upper surface
90 ISO 4	Slight random sticking or wetting of upper surface
80 ISO 3	Wetting of upper surface at spray points.
70 ISO 2	Partial wetting of whole of upper surface
50 ISO 1	Complete wetting of whole of upper surface.
0	Complete wetting of whole upper and lower surfaces

ISO 14419 Oil Repellency Grade Number	Composition
0	None
1	Kaydol
2	65:35 Kaydol:n-hexadecane (by volume)
3	n-hexadecane
4	n-tetradecane
5	n-dodecane
6	n-decane
7	n-octane
8	n-heptane



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