



Test Report

No. SL818082814512TX

Date: Oct 23, 2018

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QUEEN TEXTILE CO., LTD
6 FLOOR, WEILINSEN OFFICE BUILDING, DONGHAI INDUSTRIAL ZONE, FENGZE DISTRICT,
QUANZHOU, FUJIAN, CHINA.

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description	:	One sample of 50%polyester 50%polypropylene closed eye mesh fabric in black for garment.		
Style No.	:	9902		
Sample Receiving Date	:	Oct 17, 2018		
Test Performing Period	:	Oct 17, 2018 - Oct 23, 2018		
Test Performed	:	Selected tests as requested by applicant against Client's performance standard.		
	*	*	*	*
Test Result(s)	:	Please refer to the next page(s).		

Signed for and on behalf of

SGS-CSTC Standards Technical
Services Co., Ltd. Xiamen Branch

Lemon Ye

Lemon Ye
Account Executive



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Xiamen Branch Testing Center Textile & Footwear Laboratory

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Member of the SGS Group (SGS SA)

Test Result:

The below test was conducted in SGS SH LAB.

Liquid Moisture Management Properties of Textile Fabrics (AATCC 195-2012)

- 1 Test Equipment: Moisture Management Tester (MMT)
- 2 Orientation of fabric: Fabric is put between two layer of sensors (Top and bottom layer of sensor) with fabric face side facing downward
- 3 Applied solution: 0.2 mL of salt solution is applied to the fabric back side (skin contact side of fabric)

Test sample: As Received

Results:

Liquid moisture management indices	Average	Standard deviation	Grade
Top wetting time, WT_T (second)	4.6986	2.2615	4
Bottom wetting time, WT_B (second)	2.8642	0.0837	5
Top absorption rate, AR_T (%/second)	9.0394	3.2231	1
Bottom absorption rate, AR_B (%/second)	57.1531	0.7837	3.5
Top max wetting radius, MWR_T (mm)	13	2.7386	3
Bottom max wetting radius, MWR_B (mm)	25	0	5
Top spreading speed, SS_T (mm/second)	2.6022	1.1225	3.5
Bottom spreading speed, SS_B (mm/second)	5.5307	0.2962	5
One way transport capability, R (%)	817.4686	23.4171	5
Overall moisture management capacity, OMMC	0.881	0.0022	5

Note: Top is skin contact side of fabric; Bottom is outer side of fabric.



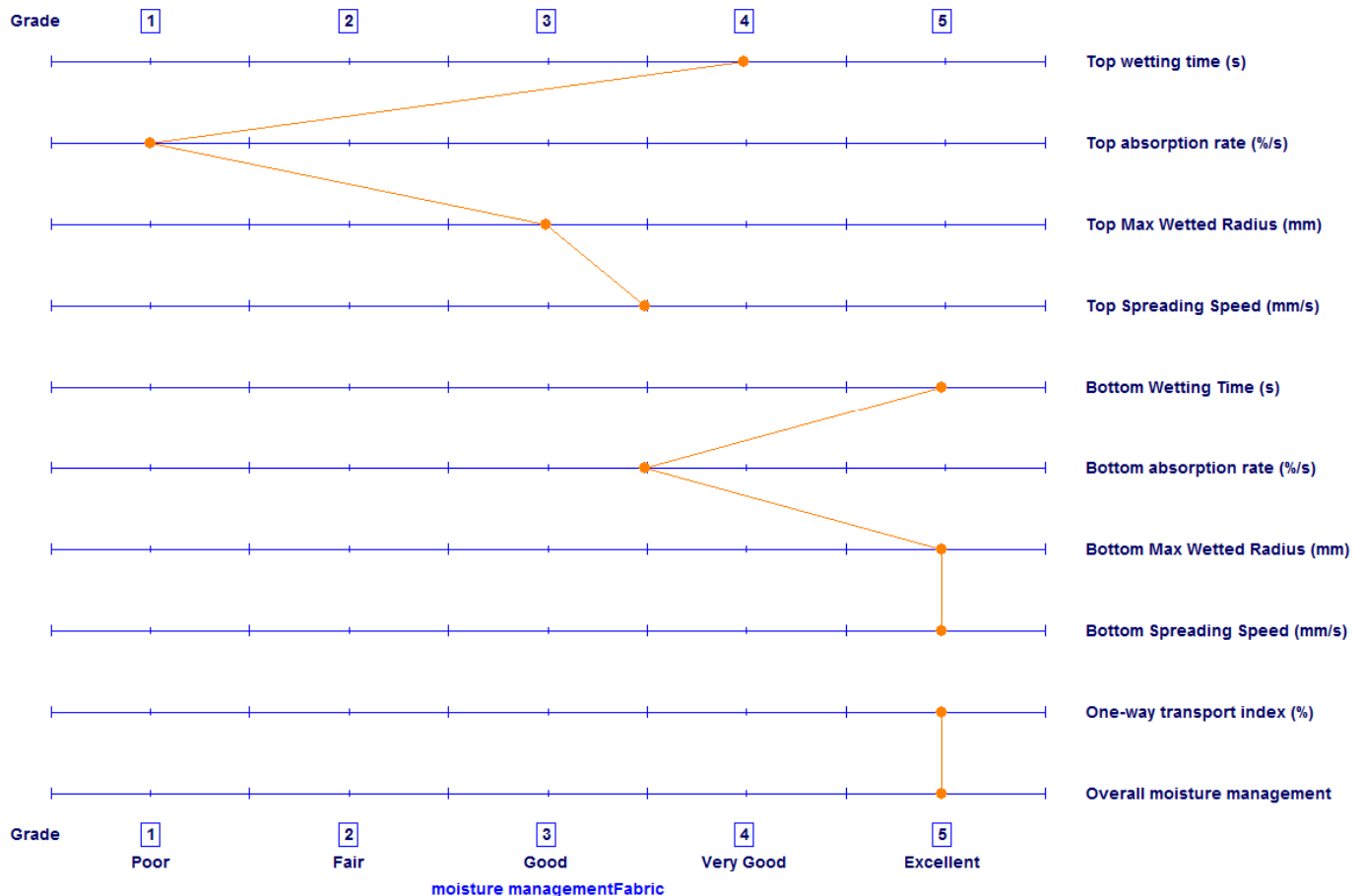
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Finger Print of Moisture Management Properties (9 GRADE SYSTEM)

(Average for Fabric: MMT)



Fabric category (with reference to MMT operation manual):

Test sample is classified as a Moisture management fabric

Remarks:

- (1) The Moisture Management Tester (MMT) distinguish the nature of fabrics (within seven major types of fabric categories) based on the following liquid moisture transfer properties measured.

Fabric category	Character of liquid moisture transfer
Moisture management fabric	- Medium to fast wetting - Medium to fast absorption - Large spread area at bottom surface - Fast spreading at bottom surface - Good to excellent one-way transport



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Fast absorbing and quick drying fabric	- Medium to fast wetting - Medium to fast absorption - Large spreading area - Fast spreading - Poor one-way transport
Fast absorbing and slow drying fabric	- Medium to fast wetting - Medium to fast absorption - Small spreading area - Slow spreading - Poor one-way transport
Slow absorbing and slow drying fabric	- Slow absorption - Slow spreading - Poor one-way transport
Water penetration fabric	- Small spreading area - Excellent one-way transport
Water repellent fabric	- No wetting - No absorption - No spreading - Poor one-way transport without external forces
Water proof fabric	- Very slow absorption - Slow spreading - No one-way transport, no penetration

(2) Moisture management indices:

- 1 Wetting time top – the time period when the top surface of the specimen just starts to get wetted
- 2 Wetting time bottom – the time period when the bottom surface of the specimen just starts to get wetted
- 3 Top absorption rate – the average moisture absorption rate for top surface of the specimen during the rise of water content
- 4 Bottom absorption rate – the average moisture absorption rate for bottom surface of the specimen during the rise of water content
- 5 Top maximum wetted radius – maximum wetted radius at the top surface
- 6 Bottom maximum wetted radius – maximum wetted radius at the bottom surface
- 7 Top spreading speed – the accumulative spreading speed from the centre to the maximum wetted radius at the top surface
- 8 Bottom spreading speed – the accumulative spreading speed from the centre to the maximum wetted radius at the bottom surface
- 9 Accumulative one-way transport index – the difference of the accumulative moisture content between the two surfaces of the fabric in unit time
- 10 Overall moisture management capability (OMMC) – indicates the overall capability of the fabric to manage the transport of liquid moisture, which includes three aspects of performances:
 - a) Moisture absorption rate at the bottom surface
 - b) One-way liquid transport capacity
 - c) Moisture spreading speed at the bottom surface, which is represented by the maximum spreading speed



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Sample Photo



*** End of Report ***



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