PO Box 5, Morley, LS27 0QP Page 1 of 3 Nepshaw Lane South, Morley, Leeds Tel 0113 253 0241 Fax 0113 252 7029 Head of Laboratory G. Briggs C. Text ATI

Client: Sirdar Spinning Ltd

Flanshaw Lane Wakefield WF2 9ND

Entry No: 49667

CONFIDENTIAL TEST REPORT

Job Title: EN ISO 11612:2008

Date Received: 23rd February 2012

Date Tests Completed: 5th March 2012

Client's Description: Sample of fabric TTP025

Performance Standard: Testing to EN ISO 11612:2008

Clause 6.2 Heat resistance

Clause 6.3 Limited flame spread (A1 surface ignition)

Clause 6.4 Dimensional change Clause 6.5.1 Tensile strength Clause 6.5.2 Tear strength Clause 7.2 Convective heat (B) Clause 7.3 Radiant heat (C) Clause 7.6 Contact heat (F)

Pre-treatment: Tests were made after 5 washing cycles in accordance with ISO 6330:2000

Procedure 2A at 60°C Drying Procedure E. The tumble drying was carried

out after the completion of each wash.

For clause 6.3 tests were made before and after the 5 washing cycles as

described above.

In accordance with Annex G of EN ISO 11612:2008 the uncertainty of measurement associated with the test methods was not taken into account.

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This is hereby certified to be a correct return of the tests made of the items referred to herein.



Machireth

for this Laboratory.

Helen Mackereth Senior Technician 6th March 2012

- Unless instructed otherwise by the client sample remnants will be disposed of after 28 days
 Test marked (*) in this certificate are not included in the UKAS Accreditation Schedule
- Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
 This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the

result to a bulk quantity or other material is entirely the responsibility of the client.



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Service

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Clause	Test Method	EN ISO 11612 Requirement & Performance Levels	Results	Pass/Fail or Level
6.2 Heat resistance	ISO 17493:2000 at 180°C	No ignition No melting Maximum shrinkage 5%	No ignition No melting Shrinkage: Warp -1.6% Weft -1.2%	PASS
6.3 Limited flame spread (A1)	ISO 15025:2000	No flaming to top or side edge No hole formation No flaming, melting or molten debris Mean afterflame ≤ 2s Mean afterglow ≤ 2s	Surface ignition as received No flaming to top or side edge No hole formation No flaming, melting or molten debris No afterflame Mean afterglow = 2 s Surface ignition after 5 washing cycles No flaming to top or side edge No hole formation No flaming, melting or molten debris No afterflame No afterglow	PASS A1
6.4 Dimensional change	ISO 5077	Maximum ± 3% (- indicates shrinkage) (+ indicates extension)	Warp -3.0% Weft -2.0%	PASS
6.5.1 Tensile strength	ISO 13934-1:1999	Minimum 300 N in both warp and weft directions	Warp 800 N Weft 570 N	PASS
6.5.2 Tear strength	ISO 13937-2:2000 (electronic recording)	Minimum 15 N in both warp and weft directions	Torn across warp 19 N Torn across weft 18 N	PASS

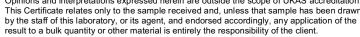
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7.2	ISO 9151:1995	Range of HTI ₂₄ Values			Specimen 1	6.6	LEVEL
Convective		Performance Levels (s)			Specimen 2	6.8	B1
heat (B)			min.	max.	Specimen 3	<u>7.0</u> 6.6	B1
		B1	4.0	< 10.0	Result based on	6.6	
		B2	10.0	< 20.0	lowest HTI ₂₄		
		В3	20.0				
7.3 Radiant	ISO 6942:2002	Heat 7	Transfer I	Factor RHTI ₂₄	Specimen 1	14.4	LEVEL
heat (C)	Method B	Performance Levels (s)		Specimen 2	14.6	C1	
	heat flux		min.	max.	Specimen 3	<u>14.5</u>	Ci
	20 kW/m ²	C1	7.0	< 20.0	Result based on	14.4	
		C2	20.0	< 50.0	lowest RHTI ₂₄		
		C3	50.0	< 95.0			
		C4	95.0				
7.6 Contact	ISO 12127 at 250℃	Threshold time (s)		Specimen 1	4.6	4.7 NO	
heat (F)		Min. Max.		Specimen 2			
		F1	5.0	<10.0	Specimen 3	<u>4.8</u> 4.6	LEVEL
		F2	10.0	<15.0	Result based on	4.6	
		F3	15.0		lowest t _t		

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