Australian Government

Australian Radiation Protection and Nuclear Safety Agency

Ultraviolet Protection Factor Report

Analysed for: TENTONIC

ARPANSA Reference: 1749-2 **Customer Reference:** 2267

Sample Information

Sample Type: Polyester **Sample Colour:** White

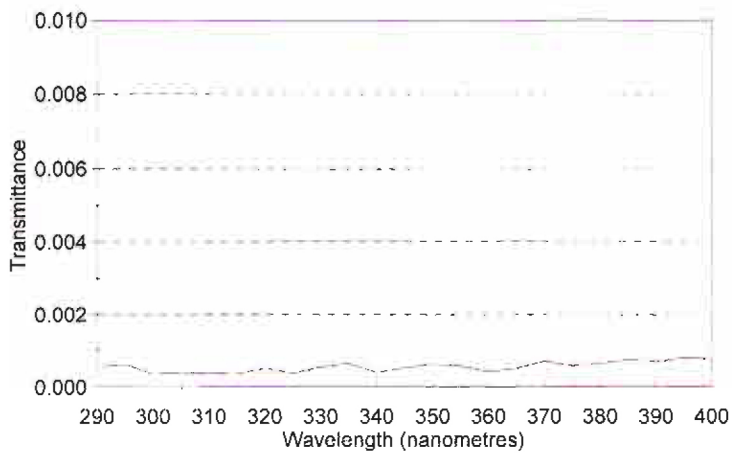
Analysis Date: 07/07/2014 **Instrumentation:** Labsphere UV-1000F s/n 018287

Description: White Polyester, PVC Coated, 1200 D

Protection Factor Results

Number of Specimens Analysed:	8
Mean UVB Transmittance:	0.000
Mean UVA Transmittance:	0.001
Mean UPF:	>300
Standard Deviation:	n/a
Standard Error of the Mean:	n/a
Rated UPF:	**50+**
Protection Category:	**Excellent**

UV Transmittance Characteristics



Statistical Uncertainties

Total Measurement Uncertainty:	n/a
Coverage Factor (99% confidence):	3.50

The maximum instrumental contribution to the uncertainty in the transmittance values T(λ) used to calculate the results is 0.0010 at the 99% confidence level.

Review of Results

This shade material is effective as protection against solar ultraviolet radiation (UVR) as it has an ultraviolet protection factor (UPF) greater than 15. A material with a rating of UPF 15 reduces the amount of solar UVR by a factor of 15.

A UPF rating of 50+ qualifies this shade material for the UPF Excellent protection category. The assigned UPF rating of 50+ may be quoted for advertising purposes.

Note that shade structures may not provide protection against reflected or scattered solar ultraviolet radiation.

Note that this material may be outside the scope of AS/NZS4399 as it is not personal sun protective clothing.

Disclaimer

Material Sample

Unless otherwise stated the sample was tested unstretched and dry. This report has been prepared in accordance with standard AS/NZS4399: 1996 - Sun protective clothing - Evaluation and classification, Appendix A. The solar spectrum described in table B2 of this standard was used to calculate the protection factor results. The results in this report are applicable to the sample tested and may not apply to other batches of the same material or similar materials. It is a condition of the provision of these test results that you do not use the name of the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) or the Commonwealth of Australia, or any words, marks or devices which may imply a connection with ARPANSA or the Commonwealth of Australia, in connection with the promotion or sale of your products, unless the ARPANSA has given express written authority to do so. This test report may only be reproduced in full and without alteration.

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12/07/2014 Alan McLennan - NATA Signatory

NATA Accredited Laboratory

Number: 14442

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TENTONIC
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The following sample(s) was/were submitted and identified by the client as:

Sample Description : One sample of woven 1200D polyester with PVC backing cutting in white

Test Performed : Selected test(s) as requested by applicant

* * * * *

Sample Receiving Date : JAN.19, 2014

Test Period Date : JAN.20, 2014 – FEB.04, 2014

Test Result(s) : For further details, please refer to the following page(s).

Test Required:

NF P 92-507 Buildings – Construction and furnishing materials – Classification according to reaction to fire
NF P 92-503 Safety against fire – Building materials –Reaction to fire tests, Electrical burner test used for flexible materials

Test Results: -- See attached sheet --

Conclusion: The submitted sample fire performance meets the requirements of M2 defined in NF P 92-507.

Signed for and on behalf of
SGS-CSTC Ltd.

Lena Chen
(Account Executive)

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Test Result

Test Conducted:*

NF P 92-503 Safety against fire – Building materials –Reaction to fire tests, Electrical burner test used for flexible materials

General Information:

Specimen size	600mmX180mm		
Conditioning	20±5℃	50±20%	24h
Testing enclosure (fume cupboard /room)	15℃ to 30℃	20% to 70%	---

Test Procedure:

The specimen to be tested is mounted in a wire rig and put on a back plate at an angle of 30º, when the test starts, an electric burner is placed under the test specimen and provide a stable thermic rate for the duration of the 5 minute test. 20 seconds after the start of testing, a pilot flame is introduced directly above the electric burner for 5 seconds, the duration of the burning is measured each time after removal of the gas flame, this process is repeated again at 45 seconds and then at 30 seconds internals for the remainder of the test, a total of four samples are required for the complete test

During the test, the following details are notes:	Sample1	Sample2	Sample3	Sample4
① The time of inflammation and its duration after withdrawing the pilot flame	12s	12s	14s	12s
② If there was flame impingement or inflamed particles or not	YES	YES	YES	YES
③ The presence of white-hot spots with or without propagation effects	NO	NO	NO	NO

After testing, the following details are noted;	Sample1	Sample2	Sample3	Sample4
The maximum destruction distance from the lower edge of the test piece	250mm	240mm	250mm	250mm
The maximum width of the destroyed zones on the section of the test piece found between 450mm and 600mm from its lower edge	No Destroy	No Destroy	No Destroy	No Destroy
The appearance of the destroyed or damaged parts of the test piece	Anomaly	Anomaly	Anomaly	Anomaly

To be continued…

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Classification

Method		Classes				
NF P 92505		--	No ignition of the wool	No ignition of the wool	Ignition of the wool	Ignition of the wool
NF P 92503		No droplets	Not -burning droplets	Burning droplets	Not -burning droplets	Burning droplets
	Ignition time ≤5s	M1	M1	M2	M4	M4
	Ignition time >5s ;damaged lenth <350mm	M2	M2	M3	M4	M4
	Ignition time >5s ;damaged lenth between 450mm and 600mm;damaged width <90mm	M3	M3	M4	M4	M4
NF P 92504		--	--	M4	M4	M4

Photo Appendix:

*** This test was carried out by SGS A.J. Laboratory**

End of Report

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