

Test Report

No.: VNLS2502006079TX-01

Date: Mar 11, 2025

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This report cancels and supersedes the report No. **VNLS2502006079TX** dated Mar 05, 2025 issued by SGS Vietnam Ltd.,

TECHTEX CO., LTD

117 CHU VAN AN STREET, WARD 26, BINH THANH DISTRICT, HO CHI MINH CITY, VIETNAM

The following sample was submitted and identified on behalf of the client as:
One samples of (A) 7050 in Purple

Sample Description : 7050
 Color Submitted : Purple
 Composition : 87% Nylon, 13% Spandex
 End Use : Garment
 Sample Receiving Date : Feb 07, 2025. Confirmation date: Feb 28, 2025 & Mar 10, 2025 PM
 Test Performing Period : Feb 28, 2025 – Mar 05, 2025
 Performed Test Summary : Selected test(s) as requested by applicant against Client's specified requirement.
 * * * * *
 Test Result(s) : Please refer to the next page(s).

Signed for and on behalf of
SGS Vietnam LTD



Thai Thy Ngan
Softlines SBU Manager

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Test Result:

Ultraviolet Protection (UPF Rating)

Test Method: AATCC 183:2020e, ASTM D6603: 2019

Test conditions

- 1 Air temperature: 21±1 °C
- 2 Relative humidity: 65 ± 2 (%)
- 3 Orientation of test specimen: Specimens were clamped in sample holder. Fabric face side is facing the incident UV light
- 4 Test was conducted in wavelength range: 280 – 400 nm
- 5 No. of Scans: 6

<u>Test results:</u>	<u>Dry Evaluation</u>	<u>(A)-Original</u>	<u>Wet Evaluation</u>
Percent Transmittance, T (UV-A)	0.54		1.08
Percent Transmittance, T (UV-B)	0.22		0.34
Percent Transmittance, T (UV-R)	0.81		1.53
The percent blocking, UV-A	99.46		98.94
The percent blocking, UV-B	99.78		99.66
The percent blocking, UV-R	99.19		98.47
Mean Ultra Violet Protection Factor (UPF)	297.89		166.48
Standard deviation (SD):	18.32		9.71
Standard error (E):	30		16
Rate UPF:	50+		50+
Protection Category:	Excellent UV Protection		Excellent UV Protection

Remarks:

- (1) Refer to ASTM D6603, the UV protection category is determined by the UPF values

UPF 40 or greater	Excellent UV Protection
UPF in between 25 to 39	Very Good UV Protection
UPF in between 15 to 24	Good UV Protection
UPF less than 15	Unclassified

- (2) Ultraviolet Protection Factor (UPF) is the ratio of the average effective ultraviolet radiation (UV-R) irradiance transmitted and calculated through air to the average effective UV-R irradiance transmitted and calculated through fabric.
- (3) The limits of the spectral range of ultraviolet radiation are not well defined and may vary according to the user. Committee E-2.12 of the International Commission on Illumination (CIE) distinguishes in the spectral range between 400 and 100 nm:
 - UV-A: 315 - 400 nm
 - UV-B: 280 - 315 nm
 - UV-R: 280 - 400 nm
- (4) This method can also be used to determine the UPF of the fabrics in a stretched state. However, the techniques for stretching the specimens are not part of this method and are addressed in a separate test procedure. It must be noted that stretching the specimens could change the UPF properties.

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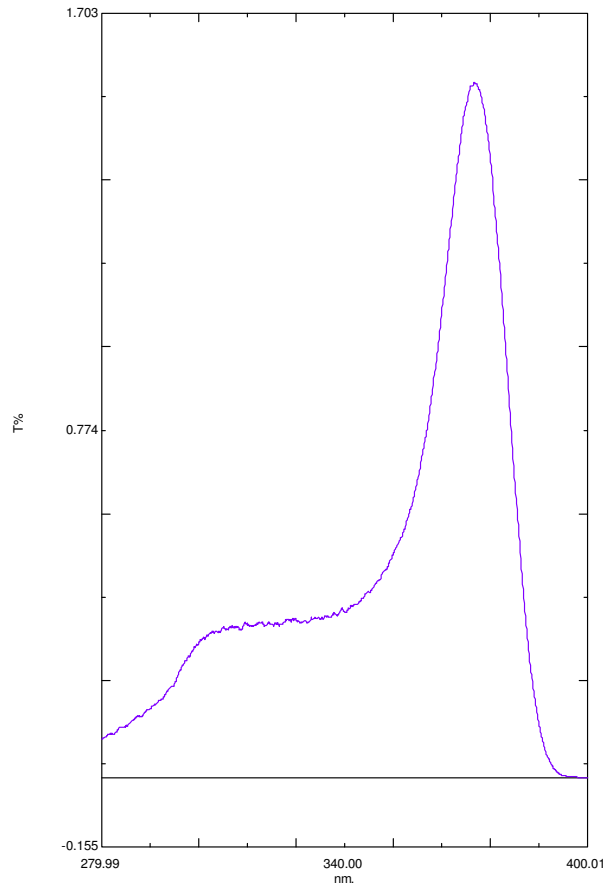
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(5) The listed protection category is for reference only, the market claims for labeling UV-Protection product shall follow "Standard Guide For Labeling UV-Protection Textiles" as stated in ASTM D6603.

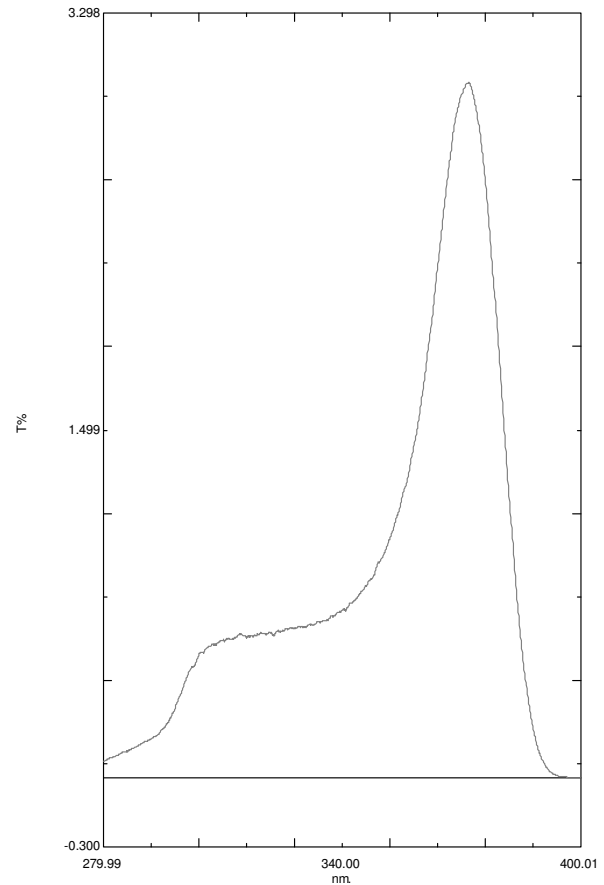
Note: Graph Appendix & raw data are attached

(A)-Original

Dry evaluation



Wet evaluation



Remark: Above tests are accredited ISO 17025: 2017 by VILAS.

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PHOTO OF SUBMITTED SAMPLE

Report results refer to submitted sample(s) only
*** End of Report ***

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