



The Siriraj Dust Mite Center for Services and Research

Faculty of Medicine Siriraj Hospital , Mahidol University, Bangkok 10700, Thailand

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(FA 051/2562)

Product Testing Report

Report No. : FA 051/2562

Date of Issue : May 28th, 2019

Customer : PJ GARMENT(THAILAND)CO.,LTD
38,38/1 Moo4, Orada Factory Land, Lumlukka Rood,
Lumlukka,Phatumthani 12150

Sample Description : ZARE SP22A (100% POLYESTER RECYCLE TWILL MICROFIBER)
1 x 1 m. white color woven fabric

Number of samples : 3 pieces

Product Lot No. : not specify

Manufacture Date : not specify

Expire Date : not specify

Objective : To test the efficacy for mite and mite allergen protection

Testing date : May 7th - 10th 2019 and May 22nd 2019

Testing Materials : - *Dermatophagoides pteronyssimus* mites
- Control spent mite medium Lot No. : (Lot.# C-Derpt-001/2561)

Testing Methods : 1) Heat escape method
2) Siriraj chamber method
3) Dust leakage measurement
4) Allergen measurement by ELISA
5) Thread counts (ASTM D 3375: 2008) ** (performed by THTI laboratory)
6) Air permeability (ASTM D 737: 2004) **(performed by THTI laboratory)

Sample code	Fabric Sample	
	Front	Back
FA 051/2562		





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Conclusion :

This testing fabric (FA 051/2562) showed the protective efficacy against dust mites both penetration and colonization and the mite allergen as indicated in our recommendation criteria.

By the way, the above criteria have been derived from the data obtained from the previous studies performed by SDMC, therefore they may not be used as the product certification.

Please also be noted that the testing result was carried out with the product and methods mentioned above. Sampling of either the in-market products or the in-process materials was not performed; therefore please inform the consumer as appropriate.

Reference: Textile Research Journal 2009; 79(5): 436-443.

(Mrs. Prapagorn Vongjaroensanti)

Examiner



(Assistant Professor Dr. Nat Malainual)

Chairman, Siriraj Dust Mite Center

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Testing Results :

<p>1) Heat escape method (Short term) To assess the ability of the fabric against mite penetration. Mites were placed either on the outer or the inner surface of fabric. Then, the heat light was placed over and left for 10 minutes. If the fabric was porous, mites would easily pass through the fabric and/or embed themselves among the fibers. Recommendation : No mite penetration / embedding</p>	<p>No mite penetration</p>
<p>2) Siriraj chamber method (Long term) To assess the ability of the fabric against mite colonization over 48 hours. The Siriraj chamber is used for constraining mites to the fabric being tested. If the fabric was porous, mites would easily pass through the fabric and/or embed themselves among the fibers. Recommendation : No mite penetration / embedding</p>	<p>No mite penetration</p>
<p>3) Dust leakage Dust sample was vacuumed through the 2 layers of the test fabric. The weights of initial dust and the retrieved dust were compared and the efficacy is expressed as a percentage of dust leakage. Recommendation : % Dust leakage \leq 5%</p>	<p>1.04 %</p>
<p>4) Allergen protection To examine the ability of the test fabric in preventing the leakage of mite allergens. The efficacy is expressed as a percentage of allergen protection. Recommendation : % Allergen protection \geq 99%</p>	<p>99.48 %</p>
<p>5) Thread counts (performed by THTI laboratory) Standard method ASTM D 3775: 2008 (Ref.: THTI Report No. G3141/62 Issued date: 30/04/62) Recommendation : Thread counts \geq 240 threads per inch²</p>	<p>233</p>
<p>6) Air permeability (performed by THTI laboratory) Standard method ASTM D 737: 2004 (Ref.: THTI Report No. G3141/62 Issued date: 30/04/62) Recommendation : Air permeability $<$ 10 cm³/cm²/sec</p>	<p>6.69</p>

