

TEST REPORT

Technical Report:		(6622)243-0140	Aug 31,2022				
Date Received: Date Modified:		Apr 27,2022 /	Page 1 of 6				
HU XUYUAN SHENZHEN JOABOA TECHNOLOGY CO.,LTD FLOOR 16th.No.2 NORTH AREA,EXCELLENCE CITY CENTRAL SQUARE,MEILIN,FUTIAN DIST,SHENZHEN,GUANGDONG,CHINA							
Sample Description: Sample(s) received is/are stated to be: PVC GEOTEXTILE COMPOSITE GEOMEMBRANE							
Color:	/		Style No(s):	PVC-L COMPOSITE.2.5MM			
Order No.:	/		PO No.:	/			
Model No.:	/		Batch No.:	/			
Age Grade:	/		Product End Use:	/			
Vendor:	/		Retest No.:	/			
Manufacturer:	SUZHOU CO.,LTD	JOABOA TECHNOLOGY	Supplier Reference:	/			
Buyer:	/		Country of Origin:	CHINA			
Test Period:	Apr 27,20	22 to Aug 31,2022	Country of Destination:	/			

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
INDEX TEST	PASS

Remark: The results marked with "*" are transferred from (6622)053-0817 dated on March 8,2022.

Bureau Veritas

Consumer Products Services Division (Shanghai) No. 168, Guanghua Road, Zhuanqiao Town, Minhang, Shanghai, China. Post Code: 201108 Tel: 86-21-24081888 Fax: 86-21-64890042 Email: bvcps_sh_info@cn.bureauveritas.com Http: www.cps.bureauveritas.com This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty in account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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bfortus

Hyde Bao PRODUCT LINE MANAGER(HARDLINE DIVISION)



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Photo of the Submitted Sample



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TEST RESULT

Test Items		Standard Method	Permissible Limit	Test Results	Rating
*Thickness (Geomembrane only)		EN 1849/2	2.5 mm ± 5%	M 2.4mm	PASS
*Specific gravity (Geomembrane only)		EN ISO 1183/1 / Method A /		1.432 g/cm ³	DATA
*Specific gravity (Geotextile only)		EN ISO 1183/1 1.25 g/cm ³ Method A $\pm 3\%$		M 1.258 g/cm ³	PASS
*Mass per unit area of geotextile		EN ISO 9864 $500 \text{ g/m}^2 \pm 10\%$		M 512g/m ²	PASS
*Peak Value at Geotextile break:	Strength		31.5 kN/m	$\frac{M}{\geq 28 \text{ kN/m}}$	PASS
	Elongation	EN ISO 527/4	72.3%	M ≥ 65 %	PASS
*Peak Value at Geomembrane break:	Strength	(test speed 100 mm/minute)	28 kN/m	$M \ge 23 \text{ kN/m}$	PASS
	Elongation		246%	M ≥ 230 %	PASS
*Cohesion Strenght between PVC and Geotextile (Peeling Test)		EN ISO 12316-2	≥ 25 N/50mm and ≤ 37.50 N/50mm	M 28.7N/50mm	PASS
*Tear resistance (on nominal thickness of geomembrane)		EN ISO 34/1 (Specimen fig.2 Speed 50 mm/min)	≥ 80 kN/m	M 93 kN/m	PASS
*Puncture resistance (PVC layer upwards) - (CBR)		EN ISO 12236	≥ 4.5 kN	M 5.7 kN	PASS
*Low temperature flexibility		EN 495/5	Not failure at 30 °C	M Not failure at -30 °C	PASS
*Dimensional stability (6 hours at 80°C)		EN 1107/2	≤ 2.5 %	M 0.98%	PASS
*Hydrostatic pressure resistance (72h at 10 har)		EN 1928 Method B	Resistant	M Resistant	PASS



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Evaluation	Method	Requirement	Results(warp direction/Across direction)	Rating
		General appearance No blisters Thermal aging in water : (Maximum variation of weight after 56 days at 50°C, drying and reconditioning for 24 hours at 80°C)	M No blisters found	PASS
		Dimensional stability ≤2.5 % Thermal aging in water : (Maximum variation of weight after 56 days at 50°C, drying and reconditioning for 24 hours at 80°C)	M 0.8%/1.2%	PASS
Durability test	EN 14415 Method A	Variation of tensile strength (L&T) ±20% Thermal aging in water : (Maximum variation of weight after 56 days at 50°C, drying and reconditioning for 24 hours at 80°C)	M -5.0%/-7.1%	PASS
		Variation of elongation at failure (L&T) ±20% Thermal aging in water : (Maximum variation of weight after 56 days at 50°C, drying and reconditioning for 24 hours at 80°C)	M -8.1%/-8.7%	PASS
Durability test	EN 12224	Weathering : UV resistance (3000 h - 350 MJ/m2) Appearance only	M No cracks found	PASS
Dimensional stability	EN 14415 Method A CPSD-GB-01056- MTHD	Report the data.	25.3 cm/24.9 cm	DATA
Dimensional stability (Thermal aging in water)	EN 14415 Method A CPSD-GB-01056- MTHD	Report the data.	25.5 cm/25.2 cm	DATA
Tensile strength (L&T)	EN 14415 Method A Speed:100mm/mi n Report	Report the data.	28 Mpa/31 Mpa	DATA
Tensile strength (L&T) (Thermal aging in water)	EN 14415 Method A Speed:100mm/mi n	Report the data.	26.6 Mpa/28.8 Mpa	DATA
Elongation (L&T)	EN 14415 Method A Speed:100mm/mi n	Report the data.	246 %/253 %	DATA
Elongation (L&T) (Thermal aging in water)	EN 14415 Method A Speed:100mm/mi n	Report the data.	226 %/231 %	DATA



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Rating Key:PASSPassDATAData

Result Key: M Meets

END