



国家化学建筑材料测试中心

NATIONAL  
TEST CENTER  
OF POLYMER AND  
BUILDING MATERIALS



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中国认可  
国际互认  
检测  
TESTING  
CNAS L1049

# National Test Center of Polymer & Building Materials



Address: No. 14, Beisanhuandonglu, Chaoyang District, Beijing, China Post Code: 100013  
Tel: +86(0)1064208747, +86(0)1064200694, +86(0)1064224642, +86(0)1059202479  
Fax: +86(0)1059202784, +86(0)1084290301 Web site: www.plasticstest.net

No.2023(X) 03038

**CUSTOMER:** Haoyang Environmental Co., Ltd

### SAMPLES FOR TESTING

Name: Filament composite geomembrane

Manufacturer: Haoyang Environmental Co., Ltd

Appearance: White

Specification: 250g/m<sup>2</sup> /0.5mm /250g/m<sup>2</sup>

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**THIS REPORT COMPRISES 3 PAGES**



**DIRECTOR:** 杨红浩

**CHECK:** 潘毅



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## TESTING RESULTS



No. 2023(X) 03038

No.	Test Items		Requirements	Results	Test Methods
1	Appearance quality				
	Defects		Slight Defects	Severe Defects	/
	Delamination, fold		Distinct	Severe	Pass
	Impurities		Soft, coarse $\leq$ 5mm	Hard; Soft, coarse $>$ 5mm	Pass
	Defective edges		$\geq$ 300 cm, one measurement is taken every 50 cm	$>$ 300cm	Pass
	Repair points		$\leq$ 2cm	$>$ 2cm; perforation	Pass
2	Width deviation, %		-1.0	1.0	GB/T 17642-2008 5.1
3	Tensile strength at break, kN/m	transversal	$\geq$ 20.0	33.7	GB/T 17642-2008 5.4
		longitudinal	$\geq$ 20.0	35.4	GB/T 17642-2008 5.4

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Test: 宋超 朱天戈



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## TESTING RESULTS

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(CONTINUED FROM THE PREVIOUS PAGE)

No.	Test Items	Requirements	Results	Test Methods	
4	Nominal elongation	transversal	30~100	54	GB/T 17642-2008 5.4
		longitudinal	30~100	54	GB/T 17642-2008 5.4
5	Tearing strength, kN	transversal	≥0.70	1.05	GB/T 17642-2008 5.5
		longitudinal	≥0.70	1.27	GB/T 17642-2008 5.5
6	CBR puncture resistance, kN	≥3.2	6.10	GB/T 17642-2008 5.6	
7	Peel strength, N/cm	transversal	≥6	13.0	GB/T 17642-2008 5.14
		longitudinal	≥6	16.6	GB/T 17642-2008 5.14
8	Static hydraulic pressure, (1.0MPa)	1.0MPa No cracking	No leakage	GB/T 17642-2008 5.17	
9	Penetration coefficient, cm/s	<5.0×10 <sup>-12</sup>	Impermeable	GB/T 17642-2008 5.18	

Note: Test items were conducted at Tongzhou branch.

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Test: 宋超 朱天戈