



国家化学建筑材料测试中心

NATIONAL
TEST CENTER
OF POLYMER AND
BUILDING MATERIALS



220020349451



中国认可
国际互认
检测
TESTING
CNAS L1049

National Test Center of Polymer & Building Materials

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No. WT2022-115

CUSTOMER: Haoyang Environmental Co., Ltd

SAMPLES FOR TESTING

Name: 1mm Single-texture HDPE geomembrane

Manufacturer: Haoyang Environmental Co., Ltd

Appearance: Black sheet

Thickness: 1mm

DATE OF RECEIPT: 2022-11-05

ISSUE DATE: 2022-12-20

THIS REPORT COMPRISES 5 PAGES



DIRECTOR: 杨红皓

CHECK: 潘焱



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Test report

Report number: WT2022-115

Total 3 pages, Page 1

Product name	Single-texture HDPE geomembrane	Inspection category	Entrusted inspection
Entrusted unit	Haoyang Environmental Co.,Ltd	Specification and model	HDPE2-18000/1.0 CJ/T234-2006
Production unit	Haoyang Environmental Co.,Ltd	Sample level	/
The number of samples	8m×1m	Sample number	WTYP2022JYXM115
Sample delivery personnel	Gao Feng	Sample receipt date	2022.09.30
Sample product Characteristics and status	Flat and undamaged	Sample collection location	Business hall
Inspection conditions	22°C,55%RH	Date of inspection	2022.10.01 2022.12.20
The basis of inspection	CJ/T234-2006 《High-density polyethylene geomembrane for landfill》		
Inspection requirements	Roughness height, width and deviation, density, yield strength, breaking strength, yield elongation, breaking elongation, right-angle tear strength, puncture strength, standard oxidation induction time, water vapor permeability coefficient, -70°C low temperature impact embrittlement performance, and UV resistance.		
Test conclusion	After testing, all items tested were in compliance with the technical requirements of CJ/T234-2006 "High-density polyethylene geomembrane for landfills".		
Complete Pour	Only responsible for samples.	Report issuance date (stamp):	



Chief Inspector: 纪艳玲

Review: 孟红红

Approval: [Signature]

Date: 2022.12.20

Date: 2022.12.20

Date: 2022.12.20



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Serial number	Inspection items		Technical indicators	Test results	Single item evaluation
1	Rough height (Mm)		≥ 0.25	0.28	Pass
2	Width and deviation (%)		± 80	0.12	Pass
3	Density (g/cm ³)		≥ 0.939	0.941	Pass
4	Yield strength (N/mm)	From south to north	≥ 15	21.6	Pass
		Crosswise	≥ 15	23.9	Pass
5	Fracture strength (N/mm)	From south to north	≥ 10	25.2	Pass
		Crosswise	≥ 10	27.7	Pass
6	Yield elongation rate (%)	From south to north	≥ 12	12.4	Pass
		Crosswise	≥ 12	12.1	Pass
7	Fracture elongation (%)	From south to north	≥ 100	612	Pass
		Crosswise	≥ 100	678	Pass
8	Right-angle tear strength (N)	From south to north	≥ 125	162	Pass
		Crosswise	≥ 125	158	Pass
9	Puncture strength (N)		≥ 267	432	Pass
Complete Pour	Only responsible for samples.				

化工研究院
测试中心(材料)专用章
045355

Chief Inspector: 纪艳玲

Review: 孟红红

Approval

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Serial number	Inspection items	Technical indicators	Test results	Single item evaluation
10	Standard oxidation induction time(OIT)min	≥ 100	115	Pass
11	Water vapor permeability(g.cm/(cm ² .s.Pa))	$\leq 1.0 \times 10^{-13}$	4.8×10^{-14}	Pass
12	-70°C low temperature impact embrittlement performance	Pass	Pass	Pass
13	UV resistance (retention rate of standard OIT after 1600h of UV irradiation)(%)	≥ 50	50.8	Pass
Complete Pour	Only responsible for samples.			

Chief Inspector: 纪艳玲 Review: 孟红红 Approval:

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