HONGXIANG

Geosynthetics You can trust

Hongxiang New Geo-Material Co.,Ltd
Economic Development Zone, Ling County,
Shandong Province, China

Test Report

Product	HDPE Geomembrane	Specification	2.0mm
Test Type	Leaving Factory Test	Test Date	2013.7.14

Test content

No.	Test Item	Unit	Test Value	Standard Value	Note
1	Thickness(min)	mm	2.01	≥2.0	
2	Density(min)	g/cm ^{3}	0.940	≥0.939	
3	Yield Strength	N/mm	29.2	≥29.0	
4	Yield Elongation	%	12.2	≥12.0	
5	Breaking Strength	N/mm	53.5	≥53	
6	Breaking Elongation	%	750	≥700	
7	Tear Resistance	N	256	≥249	
8	Carbone Black Content	%	2.2	2.0-3.0	
9	Carbone Black Dispersion	9 times in ten observation areas belong to Class one.		Carbon black dispersion(onle near spherical agglomerates) for 10 different views 9 in categorise 1 or 2 and 1 in category	
10	Puncture Resistance	N	647	≥640	
11	Oxidative induction time (OIT)				
	Standard OIT/min	105		≥100	

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	High pressure OIT/min	402		≥400	
12	Water Vapour Permeability Coefficient	g.cm/cm^2.s.pa	0.9×10^{-13}	$\leq1.0\times10^{-13}$	
13	Dimensional Stability %		1.7	±2	
14	Low temperature impaci brinle at -70℃		Pass	Pass	
15	Hstress crack resistance ,h		305	≥300	
16	Standard OIT retained after 1600hrs % Or High pressure OIT retained after 1600hrs %		50	≥50	
17	Oven aging at 85℃ (min)				
	Standard OIT-% retained after 90days		55	≥55	
	High pressure OIT-% retained after 90days		80	≥80	
Comprehensive Assessment	Implement Standard：GRI-GM13				

Inspector: 质检员2号

Checker: 郑晓英

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Test Report

Product	HDPE Geomembrane	Specification	1.5mm
Test Type	Leaving Factory Test	Test Date	2013.7.14

Test content

No.	Test Item	Unit	Test Value	Standard Value	Note
1	Thickness(min)	mm	1.51	**≥1.5**	
2	Density(min)	g/cm ^{3}	0.940	**≥0.939**	
3	Yield Strength	N/mm	23	**≥22**	
4	Yield Elongation	%	12.5	**≥12**	
5	Breaking Strength	N/mm	41	**≥40**	
6	Breaking Elongation	%	730	**≥700**	
7	Tear Resistance	N	188	**≥187**	
8	Carbone Black Content	%	2.2	**2.0-3.0**	
9	Carbone Black Dispersion	9 times in ten observation areas belong to Class one.		Carbon black dispersion(onle near spherical agglomerates) for 10 different views 9 in categorise 1 or 2 and 1 in category	
10	Puncture Resistance	N	481	≥480	
11	Oxidative induction time （OIT）				

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	Standard OIT/min	115		≥100	
	High pressure OIT/min	410		≥400	
12	Water Vapour Permeability Coefficient	g.cm/cm^2.s.pa	0.9×10^{-13}	$\leq1.0\times10^{-13}$	
13	Dimensional Stability %		1.7	±2	
14	Low temperature impaci brinle at -70℃		Pass	Pass	
15	Hstress crack resistance ,h		305	≥300	
16	Standard OIT retained after 1600hrs % Or High pressure OIT retained after 1600hrs %		50	≥50	
17	Oven aging at 85℃ (min)				
	Standard OIT-% retained after 90 days		55	≥55	
	High pressure OIT-% retained after 90 days		80	≥80	
Comprehensive Assessment	Implement Standard: GRI-GM13				

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