

Geomembrane GB/T17643-2011 Standard

1	Thickness	0.3	0.5	0.75	1	1.25	1.5	2	2.5	3
2	Density (g/cm ³)	0.940								
3	Tensile yield strength N/mm	4	7	10	15	16	20	26	33	40
4	Tensile fracture strength N/mm	6	10	15	20	25	30	40	50	60
5	Yield Elongation %	11								
6	Elongation at break %	600								
7	Right angle tear load N	34	56	84	115	140	170	225	280	340
8	Puncture resistance strength N	72	120	180	240	300	360	480	600	720
9	Carbon black content(%)	2.0-3.0								
10	Carbon black dispersibility	Out of 10 data points, there should be no more than 1 level 3, and levels 4 and 5 are not allowed.								
11	Atmospheric pressure oxidation induction time (OIT) (min)	60								
12	Low temperature impact embrittlement performance	Pass								
13	Dimensional stability (%)	±2.0								

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CJ/T 234-2006 Standard (equivalent to US GRI-GM13 standard)

1	Thickness	0.75	1	1.25	1.5	2	2.5	3
2	Density (g/cm ³)	0.939						
3	Tensile yield strength N/mm	11	15	18	22	29	37	44
4	Tensile fracture strength N/mm	20	27	33	40	53	67	80
5	Yield Elongation %	12						
6	Elongation at break %	700						
7	Right angle tear load N	93	125	156	187	249	311	374
8	Puncture resistance strength N	240	320	400	480	640	800	960
9	Resistance to environmental stress cracking	300						
10	Carbon black content(%)	2.0-3.0						
11	Carbon black dispersibility	Out of 10 data points, there should be no more than 1 level 3, and levels 4 and 5 are not allowed.						
12	Atmospheric pressure oxidation induction time (OIT) (min)	Induction time of atmospheric pressure oxidation 100 Induction time of high-pressure oxidation 400						
13	85°C thermal aging (atmospheric pressure OIT retention rate after 90 days)	55						
14	UV resistance (OIT retention rate after 1600 hours of UV irradiation) %	50						

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