JOABOA TECH--Test Report of 1.5mm Thickness PVC Waterproofing Membrane(Unexposed, Homogenous Type)

No.	Test Items			Chinese Standard GB 12952-2011	Actual Measurement	Test Result
	Tensile Properties	Tensile Strength, MPa	Longitudinal Direction	≥10.0	19.7	Approval
1			Horizontal Direction		17.4	Approval
1		Elongation at Break, %	Longitudinal Direction	≥200	320	Approval
			Horizontal Direction		318	Approval
2	Dimension Change Rate after Heat Treatment, % Longitudinal Direction Horizontal Direction			≤2.0	1.4	Approval
2					0	Approval
3	Low Temperature Flexibility			-25°C, no cracking	-25°C, no cracking	Approval
4	Watertightness			0.3MPa, 120min	Impermeable	Approval
5	Anti-impact Property			0.5kg • m	Impermeable	Approval
6	Peel Strength of Overlapping Parts, N/mm			≥4.0 or membranes are damaged	5.4	Approval
7	Right-angled Tearing Strength, N/mm		Longitudinal Direction	≥50	71	Approval
'			Horizontal Direction		62	Approval
8	Water Absor	rption(70°C, 168h),	After Immersed in Water	≤4.0	1.8	Approval
	%		Get Dry	≥-0.40	1.66	Approval

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	Chemical Resistance (Salt Treatment)	Visual Test		No bubbling, cracks, delamination, bonding and holes	No bubbling, cracks, delamination, bonding and holes	Approval
		Retention Rate of Tensile Strength, %	Longitudinal Direction	≥85	101	Approval
9			Horizontal Direction		100	Approval
		Retention Rate of Elongation, %	Longitudinal Direction	≥80	102	Approval
			Horizontal Direction		103	Approval
		Low Temperature Flexibility		-20°C, no cracking	-20°C, no cracking	Approval
	Chemical Resistance (Alkali Treatment)	Visual Test		No bubbling, cracks, delamination, bonding and holes	No bubbling, cracks, delamination, bonding and holes	Approval
		Retention Rate of Tensile Strength, %	Longitudinal Direction	≥85	102	Approval
10			Horizontal Direction		100	Approval
			Longitudinal Direction	≥80	95	Approval
			Horizontal Direction		93	Approval
		Low Temperature Flexibility		-20°C, no cracking	-20°C, no cracking	Approval
	Chemical Resistance (Acid Treatment)	Visual Test		No bubbling, cracks, delamination, bonding and holes	No bubbling, cracks, delamination, bonding and holes	Approval
		Resistance Retention Rate of Tensile Strength, %	Longitudinal Direction	≥85	101	Approval
11			Horizontal Direction		102	Approval
		Retention Rate of	Longitudinal Direction	≥80	94	Approval
		Elongation, %	Horizontal Direction		94	

			Low Temperature Flexibility		-20°C, no cracking	-20°C, no cracking	Approval
12			Visual Test		No bubbling, cracks, delamination, bonding and holes	No bubbling, cracks, delamination, bonding and holes	Approval
			Retention Rate of Tensile Strength, %	Longitudinal Direction	≥85	98	Approval
	12	Thermal Aging Treatment		Horizontal Direction		99	Approval
		(80°C, 672h)	Retention Rate of Elongation, %	Longitudinal Direction	- ≥80	92	Approval
				Horizontal Direction		92	Approval
			Low Temperature Flexibility		-20°C, no cracking	-20°C, no cracking	Approval