

Product Quality Standards Of Paint Protective Film TPU

Order	Inspection Items		Unit	Standard Value	Test Method	Inspection Tools
1	Broad Width		Millimeter	1522 ± 2	GB/T 6673	Steel tape measure
2	Thickness	Total thickness	Um	270-370 ± 10	GB/T 6672	Display the thousand-minute table
		Use the thickness of the layer		130-230 ± 10		
3	Length per Roll		M/Roll	15	Visual & Dimensional Inspection	Length Counter
4	Foreign Matter		One/m²	<0.6mm: should not be dense	Visual Inspection	Compare the sample
				0.6mm-1mm: ≤ than6		
				>1mm:0		
5	Modulus of elasticity		Kgf/cm²	130um ≤ 400 150um ≤ 450 200um ≤ 600	ASTM D-882	Electronic tensile testing machine
6	Repair layer		Percent	More than100	ASTM D-882	Electronic tensile testing machine
	Elongation of fracture					
7	Adhesive force		N/in	Initial Tack: 16 ≤ F ≤ 26	FINAT 3	Electronic tensile testing machine
				Holding Power: 20 ≤ F ≤ 30		
8	Acid and alkali resistance		/	No abnormality	Soak in HCl and NaOH solution for 30 minutes	PH value (5 ~ 7) HCl solution
						PH value (7-10) NaOH solution
9	UV blocking rate		%	≥ 96	GB/T 2680	PE950
Ten	Degree of fog		%	≤ 2.0	ASTM D1003	AT-4727 haze tester
11	Gloss		N/A	≥ 90	Paste the test paint coverage.	Gloss meter
12	Anti-rain spot performance		/	No sign	Place the product template on the rooftop for 15 days, then wash it with water.	Painted cover model
13	Oil-resistant pen performance		/	No residual matter	Apply using the Chenguang MG-2110 oil-based pen. Once the ink is fully dry, proceed to spray with alcohol and wipe clean.	Morning light MG-2110 oil-based pen
14	Anti-aging property		/	△E Less than2; No cracking	QUV (0.5W, 40°C, 340nm, 120-minute cycle, 18-minute spray), 3200 hours	Ultraviolet light resistance climate test chamber
				Not foamy.		
15	Heat resistance and cold resistance		/	No cracking, no bubbles, no delamination.	High temperature 80°CThe low temperature is minus 40°C	High and low temperature tester
					Cold and hot alternately test for 4 hours each for 168 hours	
16	Repair Performance		Small size	≤ 5	Load capacity 110g/cm²Scrape the thin copper brush 10 times, using 70°CLeft and right hot water or hot air for repair	Thin copper brush, hot water, roasting gun
			/	There are no scratches on the surface.		
17	Product's elongation at fracture		%	≥ 200	ASTM D-882	Electronic tensile testing machine
18	Light transmittance		Small size	≥ 90	Test five points to take the average	AT-4727 haze tester