

# TECHNICAL DATA SHEET

PRODUCT MODEL

**AD-9**

Number	Test Items	Test Method	Testing Tools	Units	Standard Values	Measured Values	Judgement
01	Wide Width	GB/T6673	Steel Measuring Tape	mm	1524 ± 2	1524	√
02	Aggregate Thickness	GB/T6672	Digital Dial Gauge	um	346.5 ± 10	355	√
	Thickness of Working Layer				204.5 ± 10	211	
03	Light Transmittance	GB/T2680	LS162	%	≥ 85	89	√
04	UV Barrier Rate	GB/T 18830	Transmittance Measuring Instrument	%	≥ 95	99	√
05	Healing	Fine copper brush with a load of 200g/cm <sup>2</sup> is scraped 30 times, using hot water of about 70℃ or hot air to repair	Fine Copper Brush, Heating Gun, Hot Water	S	≤ 5	Healed	√
06	Scratch Resistance			/	No Bruise	No	√
07	Oil Resistant Pen Properties	Apply with MG-2110 oil pen, wait until the handwriting is completely dry (2 minutes), wipe with alcohol spray	MG-2110 Brush	/	Residue Level 0 to 2	1	√
08	Carburetor Resistance	Apply branded carburetor cleaner to the surface of the repair layer for 2 minutes	Carburetor	/	Swelling Slight Matte	Swelling Slight Matte	√
09	Repeatability of Mounting Layer	Use lacquer cover plate, repeat to tear and paste 3 times, no residual glue, stable adhesion does not affect the film effect); tear the protective film without solvent smell	Lacquer Cover Plate Model	/	No Residual Glue No Solvent Smell	Normal	√

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10	Initial Adhesive Force	20min test of attaching steel plate	Tensile Tester	N/in	$15 \leq F \leq 25$	20	√
	Permanent Adhesion	Paste on the steel plate for 168 hours for testing			$20 \leq F \leq 35$	24	√
11	Tensile Strength	ASTMD-882	Tensile Tester	Mpa	$\geq 16$	28	√
12	Tear Strength	ASTMD-882	Tensile Tester	N/cm	$\geq 60$	77	√
13	Puncture Resistance	ASTMD-882	Tensile Tester	N	$\geq 12$	15.5	√
14	Elongation at Break	ASTMD-882	Tensile Tester	N/in	$\geq 250$	340	√
15	Prolongation of the Healing Layer	ASTMD-882	Tensile Tester	%	$\geq 90$	98	√
16	Elasticity Modulus	ASTMD-882	Tensile Tester	Kgf/cm <sup>2</sup>	$\leq 450$	305	√
17	60°Surface Gloss	ASTM D523	Gloss Meter (60°)	GU	$\geq 90$	96	√
18	Hydrophobic Angle	GB/T30693-2014	Hydrophobic Angle Tester	°	$\geq 90$	99	√
19	Install Layer Adhesion	ASTM D3359	Cross-Cut Tester	/	5B	5B	√
20	Thermal Endurance	High temperature 80 °C Low temperature minus 30 °C Cold and hot alternate 4 hours each test	Oven	/	Normal	Normal	√
21	Acid And Alkaline Resistance	Respectively in PH (5 ~ 7) HCl and Soak in (7 to 10) NaOH solution for 30 minutes	PH (2-5) HCL Solution, pH (10-13) NaOH Solution	/	Normal	Normal	√
22	Rain Spot Resistant	The template of the product is placed on the roof for 15 days and cleaned with water	Lacquered Plate Model	/	Normal	Normal	√
23	Aging Resistance	QUV (0.5W, 40 °C, 340nm, 120 min cycle, spray 18 minutes) 3,200 hours	UV Weather Resistance Test Chamber	/	Normal	Normal	√
24	Haze	ASTM D1003	Photoelectric Fog Meter	/	$\leq 2\%$	1.3	√