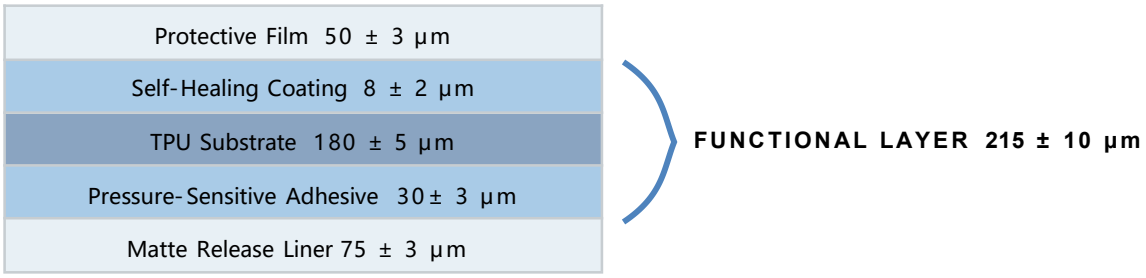
PROMA TECHNOLOGY COMPANY
975 N 1430 W
OREM, UT 84057

ACPM15-85 TECHNICAL DATA SHEET

Product Structure:



Physical Properties:

Test Item	Test Category	Test Standard or Method	Test Result
Appearance	Color	Visual inspection	Transparent
Optical Properties	Light Transmittance	ASTM D1003	≥ 90%
	Haze	ASTM D1003	20 ± 5%
Physical Properties	Application-Side Peel Adhesion	ASTM D3330/D3330M, Method A 300 mm/min, 180°	800-1800 g/in
	Top Layer Peel Force	ASTM D3330/D3330M, Method D 300 mm/min, 180°	<8 g/in
	Bottom Layer Peel Force	ASTM D3330/D3330M, Method D 300 mm/min, 180°	20-40 g/in
	UV Rejection	ISO 9050	≥ 90%
	Gloss	60° gloss meter	≥ 90%
	Tensile Strength	ASTM D882	≥ 16 MPa
	Water Contact Angle	ASTM D7334	≥90°
Performance Properties	Self-Healing Performance	Scratch the surface 10 times with a fine copper brush under a load of 200 g/cm². Restore using hot water or hot air.	≤ 5 s
Chemical Resistance	Carburetor Cleaner Resistance	Spray Biaobang carburetor cleaner onto the self-healing surface. After 1 minute, swelling may occur, but the surface shall not become matte.	No matting
	Marker Stain Resistance	Apply M&G MG-2110 oil-based marker. After the ink is completely dry, spray and wipe with 100% alcohol.	Slight residue
	Acid and Alkali Resistance	Immerse separately in HCl solution (pH 3-5) and NaOH solution (pH 10-12) for 30 minutes.	No loss of gloss, chalking, or discoloration

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Physical Properties:

Test Item	Test Category	Test Standard or Method	Test Result
Aging Resistance	Yellowing Resistance	QUV exposure: 0.5 W, 40°C, 360 nm; 120-minute cycle including 18 minutes of water spray; total exposure 500 h.	ΔE ≤ 2; no cracking or blistering
	Hydrolysis Resistance	ISO 1419, Method C	No cracking, chalking, delamination, or discoloration
Environmental Reliability	High-Temperature and High-Humidity Test	85°C, 85% RH, 72 h; change in physical properties <5%	PASS
	Thermal Cycling Test	85°C for 4 h / -20°C for 4 h, repeated for a total of 72 h; change in physical properties <5%	PASS