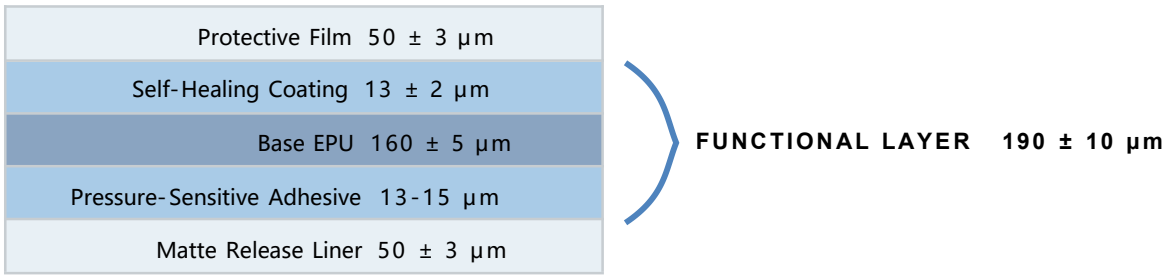
PROMA TECHNOLOGY COMPANY
975 N 1430 W
OREM, UT 84057

# WS04 TECHNICAL DATA SHEET

**AeroCloak™ Invisible Glass Armor**

## 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 | < 1% |
| **Physical Properties** | Application-Side Peel Adhesion | ASTM D3330/D3330M, Method A 300 mm/min, 180° | ≥700 g/in |
| | Top Layer Peel Force | ASTM D3330/D3330M, Method D 300 mm/min, 180° | < 10 g/in |
| | Bottom Layer Peel Force | ASTM D3330/D3330M, Method D 300 mm/min, 180° | 8-15 g/in |
| | Tensile Strength | ASTM D882 | ≥ 18 MPa |
| | Elongation Break | ASTM D882 | ≥ 120% |
| | Modulus of Elasticity | ASTM D882 | ≥ 16 MPa |
| | Water Contact Angle | ASTM D7334 | ≥ 90° |
| | Coating Adhesion | ASTM D3359 | PASS |
| **Environmental Reliability** | UV Aging Test | Mounted on windshield or placed on rooftop for natural sunlight & rain exposure | PASS |
| | 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 |