Technical Data Sheet

Incognito PPF is a high-quality paint protection film that is virtually invisible, providing your vehicle with excellent protection against scratches, chips, and other damage. Made from top-of-the-line materials, this PPF is engineered to withstand the toughest conditions and maintain its clarity for years to come. Its self-healing properties ensure that minor scratches and swirls disappear on their own, making it the perfect choice for those who want a hassle-free and long-lasting solution to protect their vehicle's paint.

Product Series: Argotec PCU Series Paint Protection Film
Available Models: PCU G75 / PCU G85
RawMaterial Combination: Premium Argotec PCU Substrate + Ashland AROSET™ 951059 Self-Crosslinking Acrylic PSA
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1. Product Overview

This automotive paint protection film covers the complete Argotec PCU product line, manufactured with upgraded premium Argotec PCU as the top functional substrate, laminated with Ashland AROSET™ 951059 single-component self-crosslinking acrylic pressure-sensitive adhesive and silicone-coated release liner.
Advantages of Argotec PCU Substrate
PCU is a new-generation upgraded aliphatic polyurethane material based on polycarbonate. Its aromatic-free molecular structure delivers outstanding UV resistance and industry-leading long-term anti-yellowing performance. Equipped with an advanced thermal self-healing formula, it features excellent ductility for perfect conformability to all complex automotive curved surfaces. The film is coated with a long-acting bionic lotus superhydrophobic nano top coat, offering ultra-high surface gloss and remarkable anti-stain performance. Two transparent thickness grades PCU G75 and PCU G85areavailable to meet the long-term protective demands of high-end vehicle modification.

Advantages of Ashland AROSET™ 951059Adhesive

Ultra-high cohesive strength, excellent resistance to plasticizer migration and chemical corrosion. Controllable low initial tack allows repositioning and adjustment during installation, paired with extremely durable static shear holding power. No adhesive residue remains after long-term outdoor exposure, and removal will not damagethe original clear coat.
The thermal expansion coefficients of Argotec PCU substrate and Ashland crosslinkable adhesive are perfectly matched. Internal stress will not form under alternating high and low temperature environments, effectively preventing bubbling, edge lifting, adhesive penetration and film fogging, applicable to both transparent PCU G75andPCUG85versions

2. Raw Material Composition Specification

Layer	Material Brand & Grade	Core Function
Top Functional Layer	Imported Premium Argotec PCU (PCU G75 / PCU G85)	Ultra-low yellowing, thermal self-healing, scratch resistance, ultra-high gloss, superior anti-stain & anti-corrosion, long-lasting superhydrophobic self-cleaning nano coating; two transparent thickness options only
Adhesive Layer	Ashland AROSET™ 951059 Self-Crosslinking Acrylic PSA	Adjustable adhesion, high cohesion, residue-free removal, resistance to plasticizer and chemical migration
Release Liner	92# Bleached Clay-Coated Silicone Release Paper	92# Bleached Clay-Coated Silicone Release Paper

Ashland AROSET™ 951059 Adhesive Core Technical Index

Test Item	Standard Parameter
Solid Content	39.0–43.0%
Brookfield Viscosity (25℃)	5,000–10,000 cps
Dry Adhesive Thickness	25 μm (Coating Weight: 25 g/m²)
Crosslinking Mechanism	Single-component self-crosslinking; full crosslinking within 7 days under ambient temperature after solvent volatilization
Solvent Formula	Ethyl Acetate / n-Heptane / Isopropanol / Toluene / Acetone
Density	0.93 ± 0.03 g/cm³

3. Adhesive Bonding Performance (PSTC Standard Test, 25μm Dry Glue)

Test Item	Test Standard	Test Result	Practical Application Description
Loop Tack	ASCC HP-11d	6 N/25mm	Low initial tack, freely reposition film during wrapping without instant sticking
180° Peel Strength (15min after lamination)	PSTC-1	13.7 N/25mm	Moderate short-term adhesion, convenient to correct construction errors
180° Peel Strength (24h after lamination)	PSTC-1	17.9 N/25mm	Adhesion improves after partial crosslinking, stable bonding with vehicle paint
Static Shear Holding Power (1000g load)	PSTC-7	＞500 h	Extraordinary cohesive force, no glue sliding or edge warping under long-term high-temperature exposure

4. Argotec AGT Series TPU Substrate Core Physical & Weather Resistance Performance

Test Item	Test Index	Performance Description
Raw Material Type	High-performance PCU	PCU is an upgraded aliphatic polyurethane substrate with polycarbonate structure introduced in molecular backbone to fundamentally inhibit UV-induced yellowing. Equipped with long-lasting superhydrophobic nano top coat, it delivers ultra-high mirror gloss, superior tensile deformation recovery and long-term anti-stain & anti-corrosion upgraded properties; available in two transparent thickness grades PCU G75 and PCU G85
Xenon Arc Accelerated Weathering (1000h)	ΔE ≤ 1.0	Top-tier anti-yellowing performance, barely visible discoloration after 15 years of outdoor exposure, compatible with PCU G75 and PCU G85

Test Item	Test Index	Performance Description
Self-Healing Performance	Top-tier anti-yellowing performance, barely visible discoloration after 15 years of outdoor exposure, compatible with PCU G75 and PCU G85	All surface scratches fully recover within 1 minute after heating, scratch recovery rate ≥95%
60° Gloss (Measured by Gloss Meter)	Clear versions: 101–103 GU GU	Tested with 60° gloss meter, ultra-high mirror finish that greatly enhances the texture of original vehicle paint
Elongation at Break	≥600%	Upgraded tensile flexibility with excellent deformation recovery. Perfectly conforms to curved bumpers, door edges, mirrors and other complex surfaces, compatible with all thicknesses of PCU G75 and PCU G85
Tensile Strength	≥32 MPa	Effectively resist stone impact and minor gravel scratches
Super hydrophobic Performance	water contact angle ≥ 150°	Adopts bionic lotus super hydrophobic nano coating, water beads roll off automatically carrying surface dust.
Chemical Resistance	Resist acid rain, bird droppings, tree sap and car wash detergents	Upgraded long-term anti-stain formula enables easy stain wiping without residual marks; no surface corrosion, blistering or substrate hydrolysis, suitable for long-term outdoor use and severe high-humidity coastal environments
Low Temperature Toughness	No cracking at -40℃	Stable film performance in frigid northern regions

5. Composite Film Overall Complete Performance

1) Interlayer Compatibility The thermal expansion coefficient of Ashland self-crosslinking acrylic PSA matches that of Argotec PCU substrate. No delamination, bubbling or adhesive penetration after -40℃ ~ 90℃ temperature cycle test. Adhesive will not permeate PCU substrate and cause surface fogging, compatible with transparent PCU G75 / PCU G85 films.
2) Residue-Free Removal After Long-Term Service After 15 years of outdoor exposure, the adhesive layer remains completely attached to the PCU substrate, leaving zero residue on vehicle paint. Removal will not damage factory clear coat or repainted surfaces.
3) Anti-Plasticizer Migration AROSET™ 951059 adhesive features outstanding resistance to plasticizer precipitation, avoiding film whitening and adhesion failure.
4) Construction & Maintenance Advantages Low initial tack allows repeated alignment during installation. High cohesion after full crosslinking firmly locks film edges to resist lifting under prolonged sunlight exposure, suitable for transparent PCU G75 and PCU G85 protective films. PCU substrate delivers built-in ultra-high gloss and long-lasting superhydrophobic self-cleaning properties, greatly reducing daily car washing frequency and maintenance difficulty.

6. Compliance & Warranty

1) Environmental Compliance: Meets RoHS, REACH hazardous substance control standards
2) Weather Resistance Warranty: 15 years anti-yellowing (valid for PCU series grades)
3) Adhesive System Warranty: Residue-free removal without damaging vehicle paint

7. Storage & Usage Notes

1) Storage Environment: Cool, dry and ventilated warehouse, storage temperature 10–30℃, avoid direct sunlight
2) Shelf Life: 12 months for unopened original packaging
3) Installation Ambient Temperature: 15–35℃, dust-free workshop
4) Removal Suggestion: Uniformly heat the film to 40–50℃ before peeling to ensure the complete adhesive layer stays on the PCU substrate