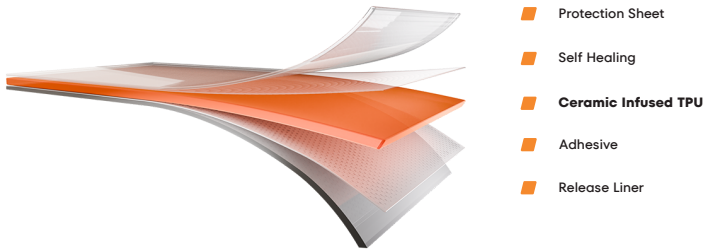


# ARMORSHIELD AS-01

PROTEKTOR ARMORSHIELD™ AS-01 is an advanced hybrid protective film for automotive panoramic glass, combining impact resistance with ceramic heat-shielding technology. It protects glass against pitting, scratches and micro-impact damage, while helping hold fragments together in case of breakage. The ceramic-infused structure reduces solar energy transmission, improving interior comfort without compromising optical clarity.



## Instructions

PROTEKTOR ARMORSHIELD™ films are compatible with all automotive glass surfaces, provided the substrate is perfectly smooth and non-porous. To ensure optimal bonding and prevent application failures, the glass must be entirely free from contaminants such as grease, oil, wax, or silicone.

Recommended room temperature for material installation is 22°C ± 4°C.

## TECHNICAL SPECIFICATION

### Physical Properties

Characteristic	Specification
Substrate Material	Transparent
Thickness of Base film	150 microns (6 mil)
Total Thickness	190 microns (7.5 mil)
Base Film Material	Hybrid TPU + Ceramic Coated PET
Top Coating	-
Adhesive Type	Ultra Clear (Trade Secret)

### Product Characteristic

Characteristic	Result / Standard	Test Method
Visible Light Transmittance (VLT)	70%	Excellent stability
Total Solar Energy Rejection (TSER)	51%	UV Resistant
Shrinkage	< 0.1%	
Tensile Strength	15 MPa	ASTM D882
Elongation (substrate/adhesive)	>400%	
Peel Strength	1050–1225 N/m	(ASTM D903)

### 180° Peel Adhesion (Tested on Stainless Steel)

Test Condition	Result (Metric)	Result (Imperial)
20 minutes at room temperature	400 N/m	3.4 lb/in
48 hours at room temperature	700 N/m	4.0 lb/in
168 hours at 35°C / 95°F @ 100% RH	700 N/m	4.0 lb/in

### Stain Resistance

Contaminant	Result
Unleaded gasoline, Diesel fuel, Motor Oil	No discoloration

### Gravelometer (Impact Resistance)

Test	Result
SAE J400 – 2 cups of gravel in Gravelometer at 25C	Pass (no ruptures)

### Natural Weathering (Arizona Exposure)

Exposure Time & Condition	Result
24 months at 45°C south-facing Arizona exposure	No cracking or dulling; No discoloration
48 months at 45°C south-facing Arizona exposure	No cracking or dulling; Slight discoloration

### Shelf Life

One year from date of receipt by customer when stored in original packaging at 22±4°C and at a maximum moisture of 50% RH.