Windshield protection film

Optically clear EPU film applied to the exterior of the windscreen to absorb stone chips and road debris.

DOCUMENT **QW-TDS-EPU-01** ISSUE DATE **26 October 2026** REVISION **1.0**

LIGHT TRANSMISSION	HAZE	UV REJECTION	FUNCTIONAL LAYER
92.8 %	0.44 %	99.5 %	165 µm

1 · PRODUCT DESCRIPTION

An optically clear elastomeric polyurethane film for the outside of the windscreen. It absorbs the impact of stone chips and road debris while keeping the driver's view undistorted — a category where a tinted or hazy film is not acceptable. Supplied on rolls for OEM and private-label programmes.

2 · CONSTRUCTION

01	02	03
Self-healing top layer	Clear EPU substrate	Installation adhesive

3 · OPTICAL AND MECHANICAL DATA

PROPERTY	TEST STANDARD	UNIT	RESULT
Total thickness	GB/T 6672	µm	299
Functional layer thickness	GB/T 6672	µm	165
Tensile strength	ASTM D882	MPa	20.3
Elastic modulus	ASTM D882	kgf/cm²	496.74
Peel adhesion, 20 min	GB/T 2792-2014	g/25 mm	≥ 320
Peel adhesion, 24 h	GB/T 2792-2014	g/25 mm	≥ 1200
Puncture force	ASTM D882	N	29.3
Puncture strength	ASTM D882	MPa	4.1
Haze	ASTM D1003	%	0.44
Visible light transmission · VLT	GB/T 2680	%	92.8
UV rejection · UVR	GB/T 2680	%	99.5

PROPERTY	TEST STANDARD	UNIT	RESULT
Infrared rejection · IRR	GB/T 2680	%	6.7
Tear strength	ASTM D882	MPa	No rupture

Reference test values for the supplied clear windshield film sample. Specifications are subject to the confirmed model. **IRR means infrared rejection, not total solar energy rejection.** Total thickness and functional layer thickness follow the terminology used in the test report. Tear strength wording follows the laboratory report (ASTM D882; result recorded as No rupture).

4 · WHY VLT AND HAZE MATTER

A windscreen film sits in the driver's line of sight, so optical performance is the specification that decides whether the product is usable at all. 92.8 % visible light transmission leaves the driver with a view close to bare glass, and 0.44 % haze stays below the level where headlights smear at night. Any tint, even a light one, changes the legal status of the windscreen in most markets.

5 · SUPPLY FORMAT

- Roll format confirmed per order; pre-cut windscreen kits available for volume programmes.
- Private-label cartons, installation solution and squeegee sets available under ODM programmes.
- Test report supplied with the quotation for the confirmed model.

6 · LIMITATIONS

Values describe the sample tested and are not a warranty of batch-to-batch performance. Film must be applied to a clean, undamaged windscreen by a trained installer. Do not apply over existing chips, cracks or repairs. Check the road-worthiness rules for windscreen film in the destination market before selling.

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Values are typical and indicative.
Confirm the specification for your order in writing.
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