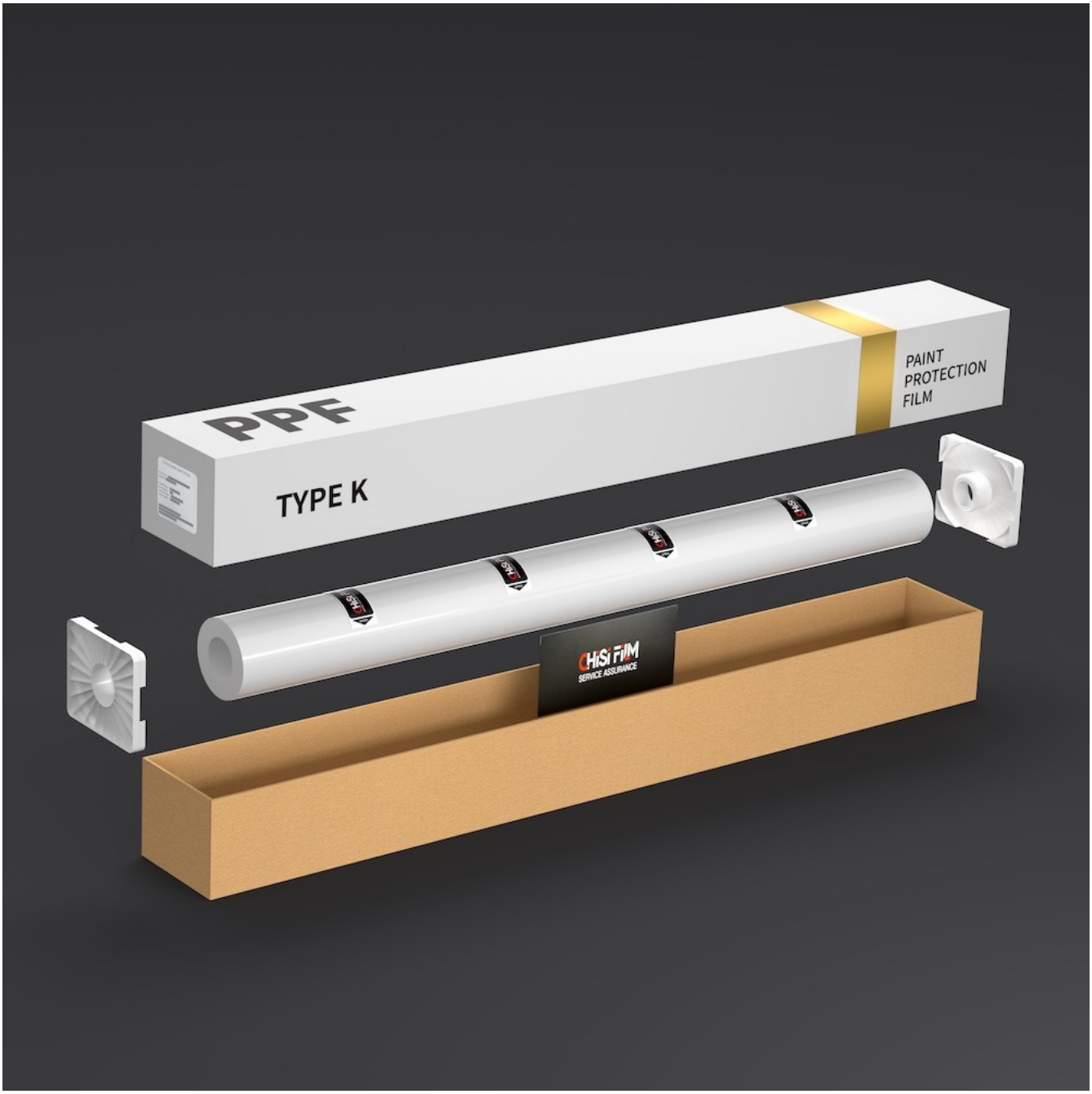
CHISI

# TYPE K


PPF
TYPE K
PAINT
PROTECTION
FILM
CHISI FILM
SERVICE ASSURANCE

CHiSi FiLM

TYPE K paint protection film (PPF)

6 product features described in this brochure

Self-healing topcoat
Nano double-coating technology; use model-specific test conditions.

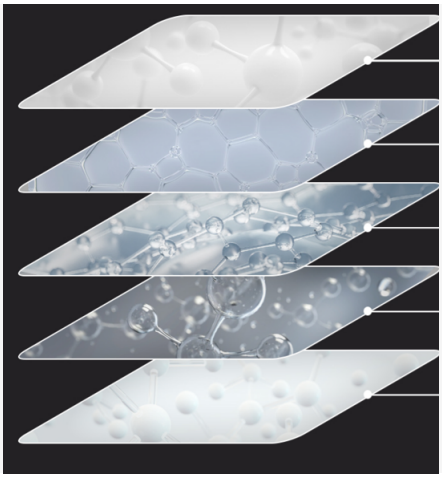
Yellowing resistance
The brochure prints “Alicyclic HDI”; this does not verify the exact diisocyanate grade or formulation.

Hydrolysis resistance
Polycaprolactone-based substrate, as described in this brochure; assess the actual model and exposure.

Chemical-resistance assessment
Covestro substrate; performance depends on the complete film and test exposure.

Gloss appearance
Nano-ceramic coating; do not apply Gloss claims to Matte or Satin.

5-year TYPE K warranty, subject to applicable CHISI terms. The brochure’s Covestro attribution does not establish supplier underwriting.



TORAY PET protective layer

NANO-CERAMIC Topcoat

COVESTRO TPU substrate

ASHLAND Pressure-sensitive adhesive (PSA)

| | |
|---|---|
| Release liner | |
| Shipping information | |
| Dimensions labeled “Roll Size” in the source | 160Cm X 20.5Cm X 18Cm |
| Dispatch schedule | Stock items: dispatch within 3–7 days; custom items: within 15 days. The source’s “Within 7 days” is not a worldwide delivery promise. |
| Estimated weight in the brochure; no net/gross basis specified | 11Kg |
| Port | Shenzhen |
| Payment reference | 100% prepaid in the source brochure; confirm the terms for the order. |
| Samples | Default A4 samples are free worldwide; all logistics costs are excluded. Other sizes: request a quote. |
| Reference pallet dimensions | 160Cm X 162Cm X 125Cm |
| Trade terms listed in the brochure; confirm applicability | FOB/CIF/CFR/DDP/DAP |
| Rolls per reference pallet | 54 rolls |
| Reference pallet volume | 3.24 $m^3$ |
| Transport | Air / sea / land, subject to the order arrangements. |
| Estimated reference-pallet weight; no net/gross basis specified | 605Kg |
| Product features and data — source brochure version | |
| Global electronic warranty service, within the applicable CHISI product scope. | |
| Electronic warranty: consult applicable terms | 5 years |
| Yellowing, hydrolysis and chemical resistance: check model-specific evidence; the source’s “No Hydrolysis” is not a confirmed blanket TYPE K claim. | |
| TPU group: source wording, chemistry unresolved | Alicyclic |

| | |
|---|---|
| Diisocyanate: source designation | HDI |
| Polyol type listed | Polycaprolactone |
| Installation, edge retention and removal: follow the selected model’s procedure and assess the paint condition; no universal no-lift or residue-free guarantee. | |
| Adhesive type listed | Self-crosslinking acrylic |
| Adhesive model listed | ASHLAND 951059 |
| Gloss appearance, stain resistance and chemical resistance are separate properties; qualify the actual finish and relevant tests. | |
| Coating technology listed | Nano double coating |
| Coating material description | Nano-ceramic materials |
| Coating properties promoted in the brochure | Heat-assisted self-healing and chemical-resistance claims; confirm the model and conditions. |
| Adhesive bond value listed | >1500g/inch |
| Stain test — yellow mustard | Δb<3 |
| Stain test — used oil | Δb<3 |
| Stain test — oil-based marker | Δb<3 |
| Gloss value listed; geometry not stated | >95gu |
| Thermal aging — source label “Porsche” | Δb<3<br>ΔGloss<6 |
| Thermal aging — source label “BMW” | Δb<3<br>ΔGloss<6 |
| Xenon-lamp aging, source result | Δb<1.8@408h |
| QUV weathering, source result | Δb<2.3@1000h |
| UV aging, source result | Δb<2.3@2000h |

Chemical resistance, source result Δb<3

Alkali resistance — NaOH NED

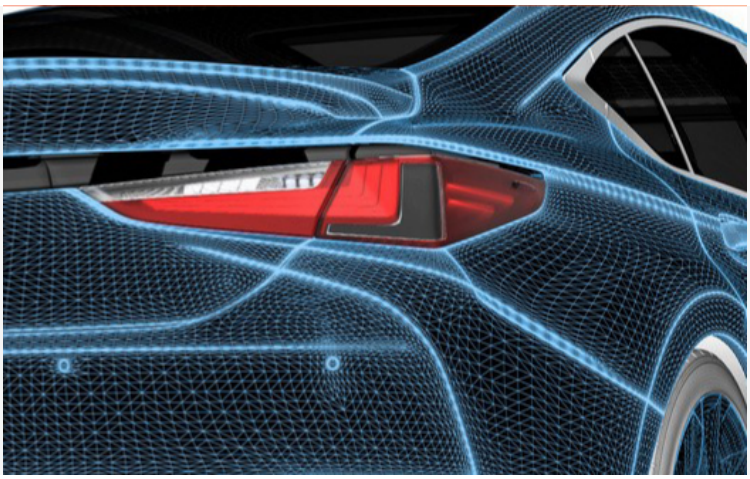
Acid resistance — sulfuric acid NED

Acid resistance — hydrochloric acid NED

Why consider TYPE-K PPF



Gloss-finish brightening reference
This section reports 30% for nano-ceramic coating. Confirm the actual model and method; do not apply it to Matte or Satin.



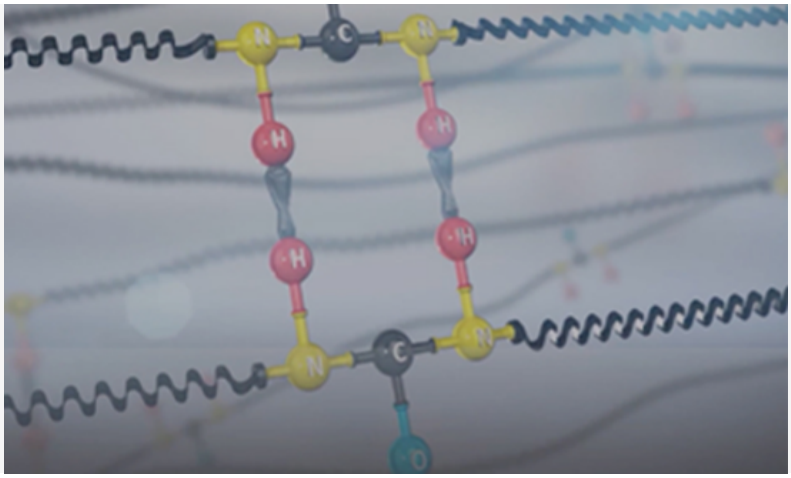
Chemical-resistance description
The brochure promotes acid and alkali resistance; evaluate the actual chemical, concentration, exposure and finished film.



Hydrolysis-resistance description
The brochure identifies polycaprolactone TPU, not a universal no-hydrolysis guarantee. Evaluate the actual TYPE K model and exposure.



Self-healing topcoat
This section describes sunlight and normal-temperature recovery. A later section specifies heat above 60 °C; these are not a single verified TYPE K procedure. Confirm model-specific conditions.

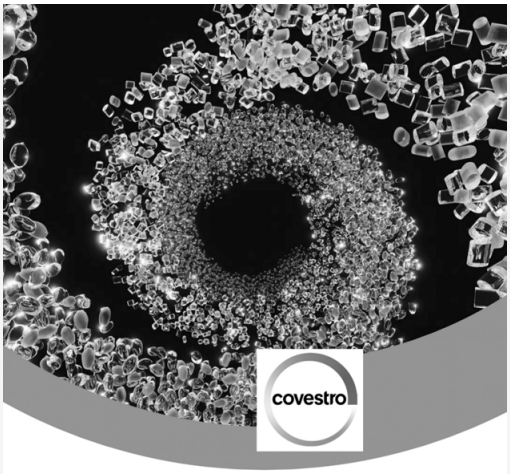


C / N / H / O

Self-crosslinking technology
The source describes solvent-free crosslinking. It does not disclose the process or establish solvent-free status for every layer of the finished film.



Removal
The brochure specifies Ashland 951059 acrylic adhesive. Follow the model and paint procedure; this is not a universal damage-free removal guarantee.




Materials and formulations

covestro

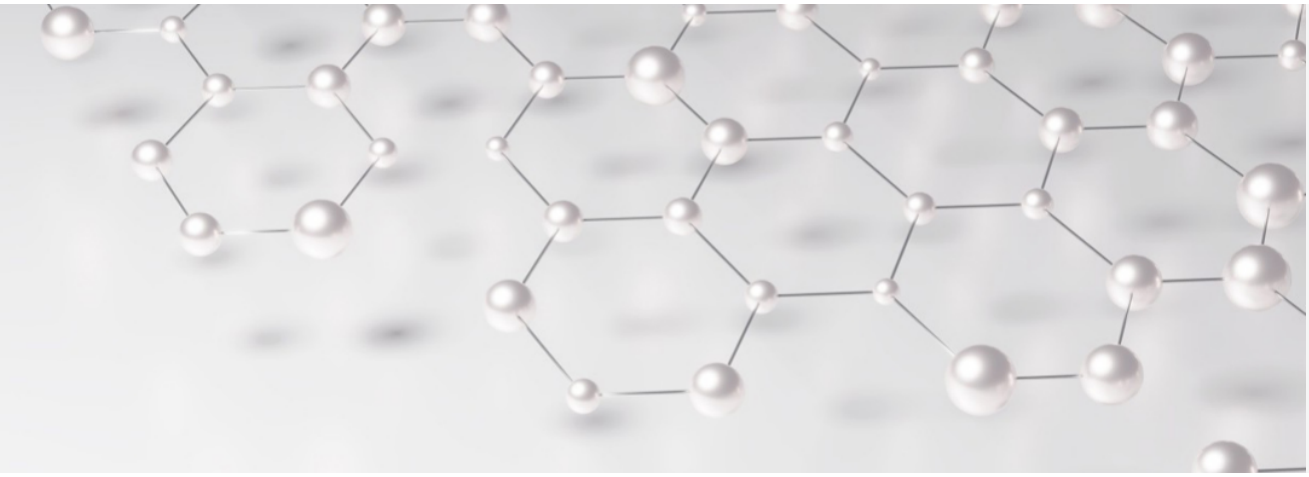
COVESTRO DESMOPAN® TPU

Transparency and appearance
The brochure promotes a clear paint finish. Transparency is not a measurement of adhesion, and “unrivalled” is not a verified comparative result.

Weathering-resistance description
Evaluate yellowing, UV exposure, chemicals and acid-rain-related contact under their own defined conditions. The brochure does not establish universal prevention of these changes.

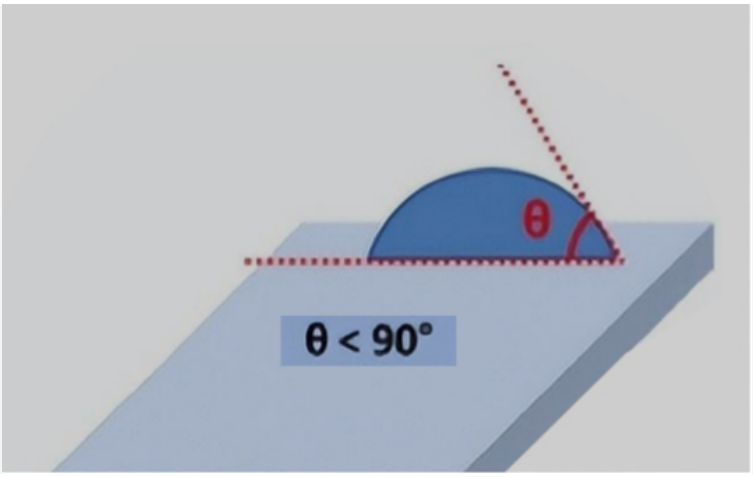
Self-healing description
Assess recovery of suitable surface marks in the actual topcoat. The source’s “paint sealant fills scratches and nicks” does not establish the mechanism or repair of deep cuts or lost material.

Material durability claim
The brochure attributes up to 5 years of protection against stone chipping, damage and paint peeling to Desmopan® UP TPU. This source claim is not evidence for every vehicle, exposure or warranty defect category.

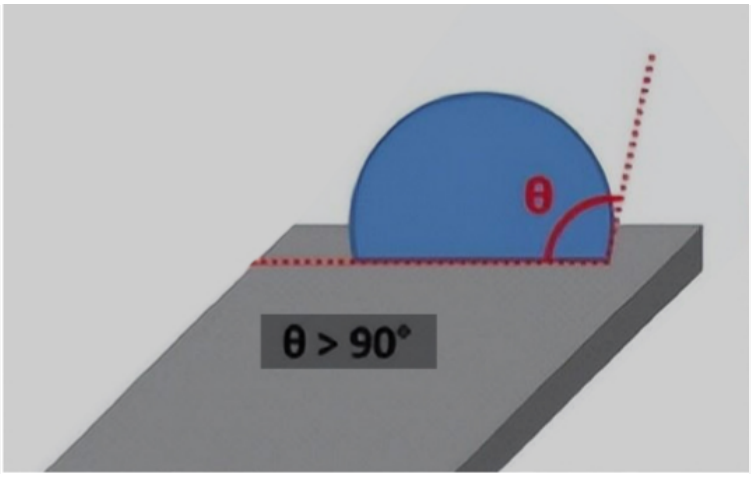


Nano-ceramic coating technology

CHISI’s nano-ceramic coating is presented for vehicle appearance and protection. Assess the selected finish and complete-film performance under relevant conditions. The source’s superlatives and transferable-warranty wording do not establish unlimited protection or an approved transfer policy.




θ
θ < 90°




θ
θ > 90°

Hydrophilic surface illustration
No gloss-retention duration or model-specific contact-angle result is provided here.

Hydrophobic surface illustration
The drawing is not a model-specific contact-angle, roll-off or durability test.



Heat-assisted surface-scratch recovery
This section states above 60 °C; it differs from the earlier normal-temperature wording. It is not a universal installation temperature or a complete recovery procedure.



Surface appearance
The brochure describes color depth and a smooth finish, not a quantified haze, clarity or optical-resolution result.



Environmental-contact resistance
Evaluate oxidation, insect residues, chemical contact and contamination for the actual TYPE K model; no universal barrier is established.



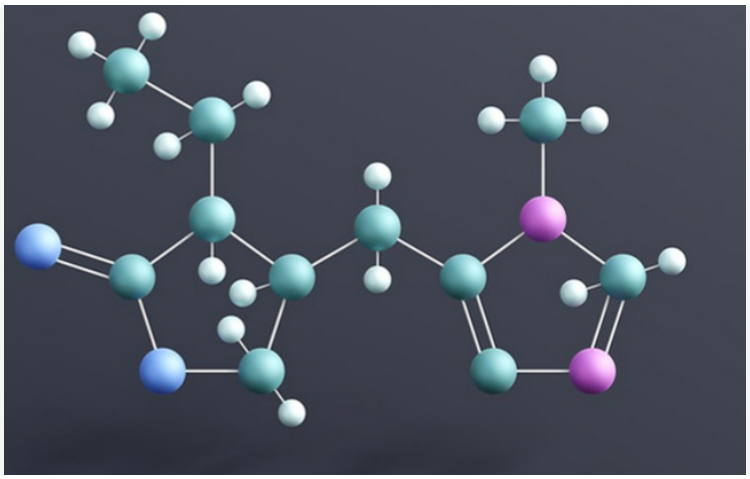
Transparent appearance
The brochure promotes transparency; visibility still depends on finish, substrate and viewing conditions. No transmittance value is stated here.



Gloss-appearance reference
This later section states more than 45%, while the earlier TYPE K feature gives 30%. The values are not interchangeable; use model-specific Gloss evidence, not Matte/Satin or whole-vehicle claims.



Chemical-resistance description
The brochure’s claim of no reaction with any acid or alkali does not establish universal compatibility or disclose the nano-ceramic composition. Test the finished film under defined conditions.



ASHLAND AROSET 951059 acrylic adhesive



Initial installation reference
“Low viscosity in the first 20 minutes” is the brochure wording. It does not define a measured viscosity, initial-tack value or peel-force method.



Later adhesion reference
The brochure says “peak viscosity” after 48 hours. This does not establish a rheology result, universal bond-development curve, chemical-curing time or no-edge-lift guarantee.

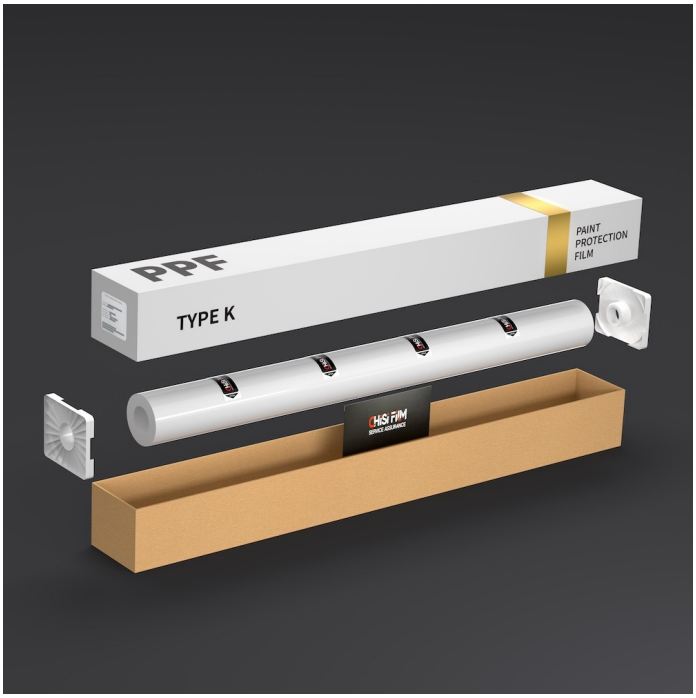


Removal and residue
The brochure associates removal with EZcoat cross-linking stabilization technology. Confirm the actual film, paint condition and procedure; the phrase is not a guarantee of residue-free removal.



Wet installation
Use a solution approved for the selected film and paint. The source mentions professional installation gel or baby bath gel; it is not a universal compatibility approval or mixing recipe.

TYPE K warranty reference: 5 years
Read yellowing, delamination, gloss loss and cracking against applicable CHISI terms and defect-specific coverage; the headline does not promise every listed issue the full 5 years. Global electronic warranty service is available for CHISI products excluding OEM/ODM. Contact your sales representative for details.




Exploded packaging view with a white TYPE K box, gold band, white film roll, end supports and black card.




Side view of a white box with a gold band and printed logos beside a white film roll and end support.

The online electronic warranty service applies to CHISI products supplied outside OEM/ODM projects. The warranty starts at first installation. The main process requires a valid serial number, activation, installation information and a record tied to one identified user in the CHISI product traceability system. Register within one month after installation. Unregistered or late-registered cases cannot proceed through this commercial after-sales process.

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The commercial warranty cannot be transferred with the vehicle or product. The purchasing customer, distributor or installer consolidates claims. If the original installer cannot be reached, the original purchaser or distributor can contact the CHISI business contact to check the records and next steps. Confirmed manufacturing defects qualify for replacement free of charge. Repair or replacement does not extend the original warranty period or start a new one. Remedies follow the applicable product terms; there is no blanket promise of cash compensation or reimbursement of installation costs chosen by the customer. Apply the terms for the actual product and order together with the CHISI commercial warranty process described here. Coverage remains specific to the series, product and defect; it is not a promise to cover every defect or situation. Discuss any document discrepancy with the CHISI business contact.

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The online electronic warranty service applies to CHISI products supplied outside OEM/ODM projects. The warranty starts at first installation. The main process requires a valid serial number, activation, installation information and a record tied to one identified user in the CHISI product traceability system. Register within one month after installation. Unregistered or late-registered cases cannot proceed through this commercial after-sales process. Follow the selected film’s installation guidance and keep the order, box label, batch code and installation records. An unregistered customer must provide evidence of installation, the user’s payment evidence and the invoice for checking. These documents do not automatically approve an exception, replace the main registration process or move the warranty start date.

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