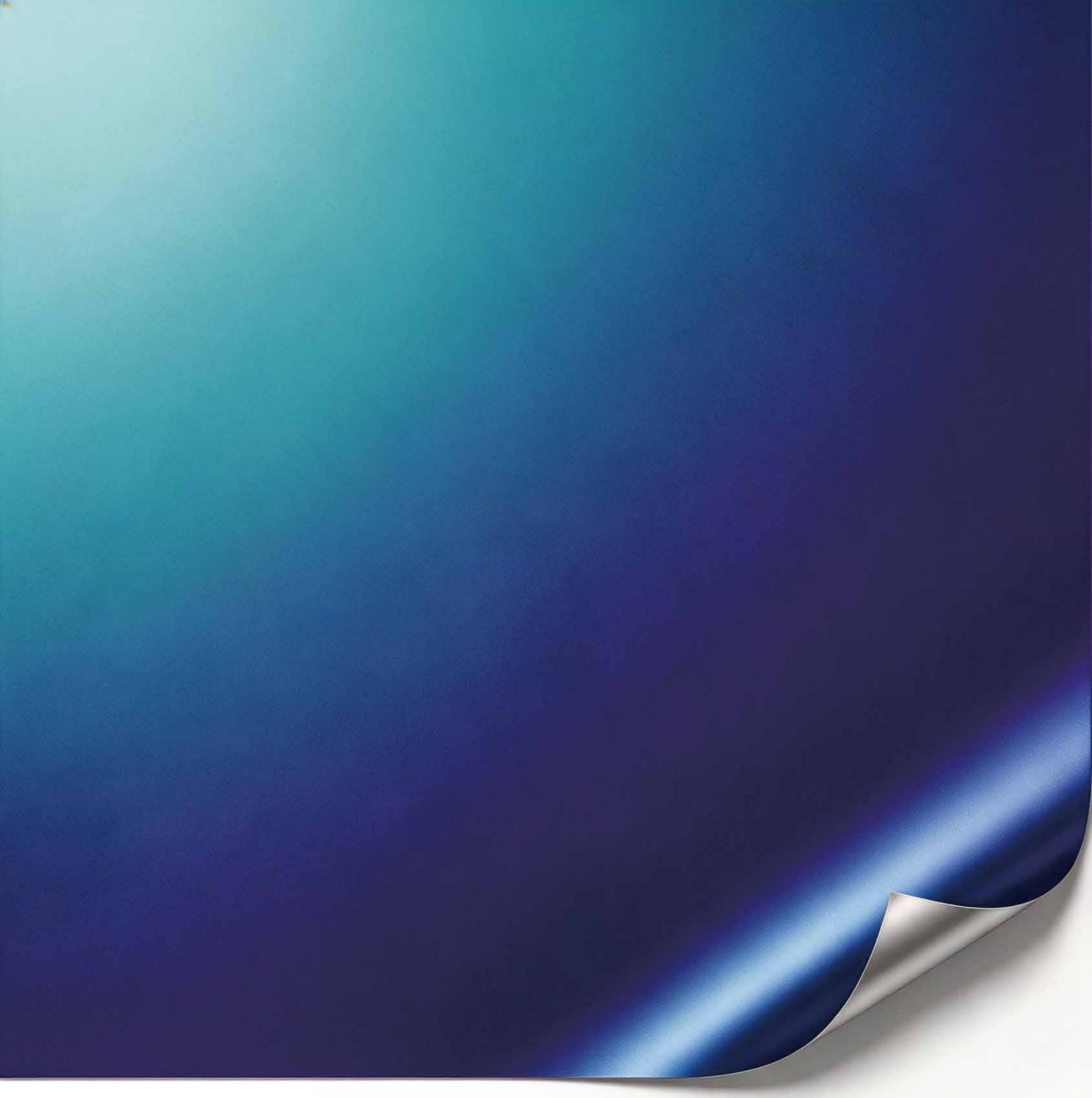


PET Vinyl Wrap

Technical Data Sheet（2026）

CNGfilm

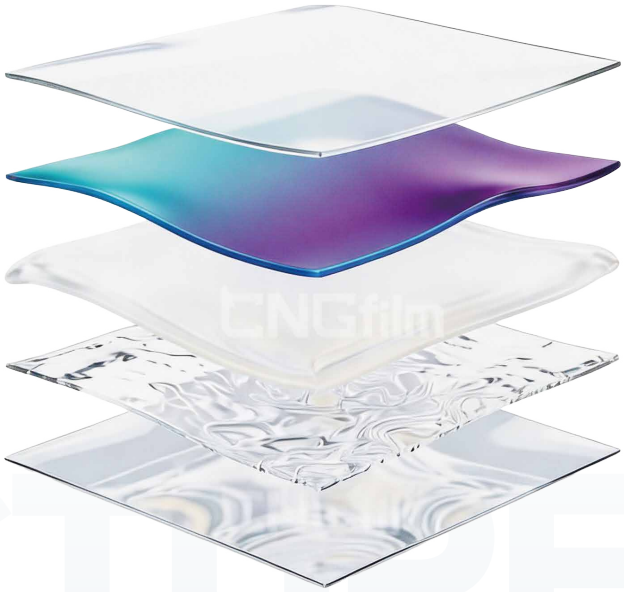
Cap sheet

PVC Color Layer

PVC Base Film Layer

Acrylic Pressure Sensitive Adhesive

PET Micro-Channel Release Liner



STRUCTURE

- **Flexible Finishes**
- **Superior Durability**
- **Bubble-Free Adhesive**
- **Durable Structure**

CNGfilm

Premium PET-based vinyl wrap film designed for superior gloss, durability, and effortless installation in automotive customization.

PET VINYL WRAP Series

2 yrs WARRANTY

Note: Values are typical data and may vary depending on color and finish.

thickness	Tensile Strength	Elongation at Break
6.5mil	**≥ 18 (MPa)**	**≥ 300%**

PHYSICAL PROPERTY

ITEMS	DATA	TEST METHOD
Thickness (Protection Film)	50±5%μm	GB/T 7125
Thickness (Product)	(165-194) ±5%μm	GB/T 7125
Thickness (PET liner)	50±5%μm	GB/T 7125
Gloss (60°) ≥90°	≥90°(for gloss finishes)	GB/T 8807
Hardness ≥85A	≥85A	GB/T 6739
Elongation at Break	≥300%	GB/T 1040
Elongation at Break(Coating)	≥85%	GB/T 1040
Tensile Strength	≥18(MPa)	GB/T 1040
Peel Strength	≥800gf	GB/T 2792

Characteristics

PROPERTY	DATA	TEST METHOD
Acid & Alkali Resistance	**No bubbling or cracking**	10% HCl / 0.1 mol/L NaOH, 24h
Yellowing Resistance (ΔE)	**≤2**	QUV 2000h
Stain Resistance	**No visible water marks**	Rain simulation test

Description of the Test Method

Acid and Alkali Resistance Test:

10% Hydrochloric Acid and 0.1 mol/L Sodium Hydroxide Solution are applied to the surface of the test sample and left for 24 hours under natural conditions. The film surface is inspected for visible bubbles or cracking.

Aging Peel Strength During Storage:

The film is exposed to simulated environmental contaminants under UV and heat conditions to evaluate resistance to staining and water marks.

Warranty

Warranty Coverage

This warranty covers:

- Excessive yellowing or discoloration beyond industry standards
- Cracking, peeling, or delamination under normal usage
- Adhesive failure resulting in loss of bonding performance

Warranty Period

Outdoor Durability: 2 years

Warranty Conditions

The film must be professionally installed and properly maintained.

Warranty Exclusions

This warranty does not cover:

- Improper installation or surface preparation
- Damage caused by accidents, misuse, or mechanical abrasion
- Exposure to harsh chemicals, fuels, or solvents
- Natural disasters or extreme environmental conditions
- Normal wear and tear over time

General Warranty Disclaimer

The warranty applies only to the film material and does not cover installation labor or related costs.
Performance may vary depending on environmental conditions and application methods.

Storage & Installation

Temperature: 25±3°C	Humidity: 50±5%RH

Clean, dry, and free of dust or contaminants

Installation Statements

Clean, dry, and free of dust or contaminants

1. Inspect the vehicle surface and ensure it is free from defects before installation.

2. Thoroughly clean the surface to remove dust, oil, grease, and contaminants.

3. Cut the film to the required size and remove the release liner before application.

4. Apply the film using dry installation method and ensure proper alignment.

5. Remove air bubbles and wrinkles during installation.

6. Post-heating is recommended to improve edge adhesion and conformability.

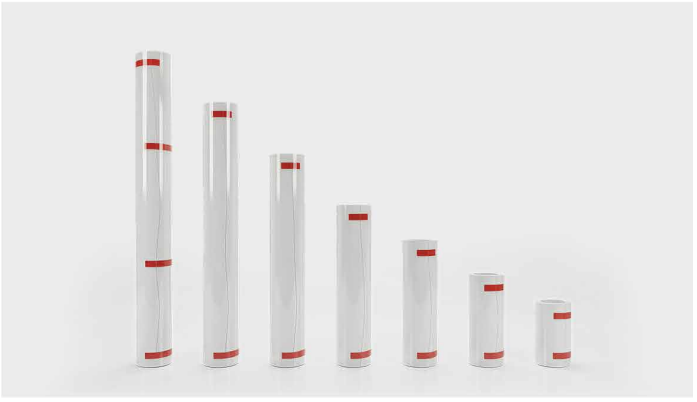
7. Avoid washing the vehicle for 48–72 hours after installation.

OEM & ODM Service

CNGFilm provides comprehensive OEM and private label services.

- Custom packaging design
- Brand logo printing
- Coil Core Code
- Roll Size
- Product specification customization
- Stable production supply

We support distributors and installers in building their own brands



Note: Rendered image for illustration purposes. Actual product may vary slightly.

World-Class
PPF&Window Film Manufacturer

200+
BRANDS' TRUSTED CHOICE

70+
GLOBAL EXPORT MARKETS

10+
GLOBAL LEADERS' CORE SUPPLIER

CNGfilm

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