CORE-5

CLEAR GLOSS TPU PAINT PROTECTION FILM

PRODUCT CODE C5-85 / NOMINAL 8.5 MIL / CLEAR GLOSS FINISH

Core-5 is a transparent gloss TPU paint protection film engineered for everyday exterior protection, high optical clarity and heat-assisted surface recovery. It is intended for professional installation on compatible automotive paintwork.

8.5 MIL	120 GU	90%	5 YEARS
NOMINAL THICKNESS	GLOSS @ 60 DEG	LIGHT TRANSMITTANCE	LIMITED WARRANTY*

PRODUCT CONSTRUCTION

01	02	03	04	05
TOP PROTECTIVE PET	**HYDROPHOBIC TOP COAT**	**BASF TPU CORE**	**ADHESIVE**	**RELEASE PET**
48 µm removable carrier	Integrated surface coating	Flexible transparent base film	Bangu adhesive / 30 µm	77 µm removable liner

PRODUCT SPECIFICATIONS

PARAMETER	SPECIFICATION
Product type	Clear gloss TPU paint protection film
Nominal thickness	8.5 mil (finished film tested at 216 µm)
Base material	BASF TPU
Top coat	Integrated hydrophobic coating
Adhesive	Bangu pressure-sensitive adhesive
Adhesive layer	30 µm
Colour / appearance	Colourless, transparent, flat and uniform
Suitable paintwork	Universal glossy automotive paintwork
Roll dimensions	1.52 m x 15 m
Sentrix limited warranty	5 years*

OPTICAL AND SURFACE PERFORMANCE

PROPERTY	TEST METHOD	REQUIREMENT	RESULT
Surface gloss	Gloss meter @ 60°	>=110 GU	120 GU
Light transmittance	Float-glass method	>=90%	90%
TPU haze	Haze meter	<=2%	0.3%
UV blocking	LS182 tester	>90%	95.6%
Hydrophobicity	Marker-pen line test	Hydrophobic	Confirmed
Stain resistance	Marker residue after alcohol wipe	Score 0-10	6 / 10

PERFORMANCE TEST RESULTS

MECHANICAL, DURABILITY AND QUALITY CONTROL

Production COA reference: SKS 8.5mil / test date 06 May 2026

MECHANICAL PERFORMANCE

PROPERTY	TEST METHOD	REQUIREMENT	RESULT
Elongation at break	PT-6081G	>=150%	378%
Tensile strength	PT-6081G	>15 MPa	19.3 MPa
100% modulus	PT-6081G	>6 MPa	6.98 MPa
Tearing strength	GB/T 529	>=40 kN/m	102 kN/m
Adhesive peel - 20 min	GB/T 2792-2014	>1,400 gf	2,063 gf

DURABILITY PERFORMANCE

PROPERTY	TEST CONDITION	REQUIREMENT	RESULT
QUV ageing resistance	ASTM G154-16, Cycle 1, 1,000 h	ΔE*ab <2	0.15
Heat self-healing	Scratch recovery using 70°C hot water or hot air	100% self-healing	100%
Scratch resistance	1,000 copper-brush cycles at 500 g	No damage after thermal repair	No damage
Temperature resistance	80 ±2°C for 24 h; recover 2 h; then -20 ±2°C for 24 h	No cracks, turbidity, bubbles or discoloration	No abnormality

APPEARANCE QUALITY CONTROL

PROPERTY	METHOD	ACCEPTANCE CRITERIA	RESULT
Visual colour	Visual inspection	Colourless and transparent	Qualified
Product appearance	Visual inspection	No impurities, coating lines, bubbles, tension marks or water ripples	Qualified
Crystal / impurity points	Visual inspection	Below 0.6 mm: not dense; 0.6-1.0 mm: <=6 pcs/m2; >1.0 mm: 0	Qualified

Application: Professional automotive installation only. Confirm substrate condition and paint compatibility before application. Use approved installation solution, tools and edge-finishing practices.
Thickness: The tested finished-film thickness of 216 µm is the sum of TPU, coating and adhesive layers. Removable PET carriers are excluded.
Data basis: Values are based on the cited production certificate and may vary within normal manufacturing tolerances. This sheet is not a substitute for installation or warranty terms.
*Warranty: Five-year Sentrix limited warranty, subject to registration, approved installation, care requirements, exclusions and the prevailing Sentrix warranty policy.