PRIME-90

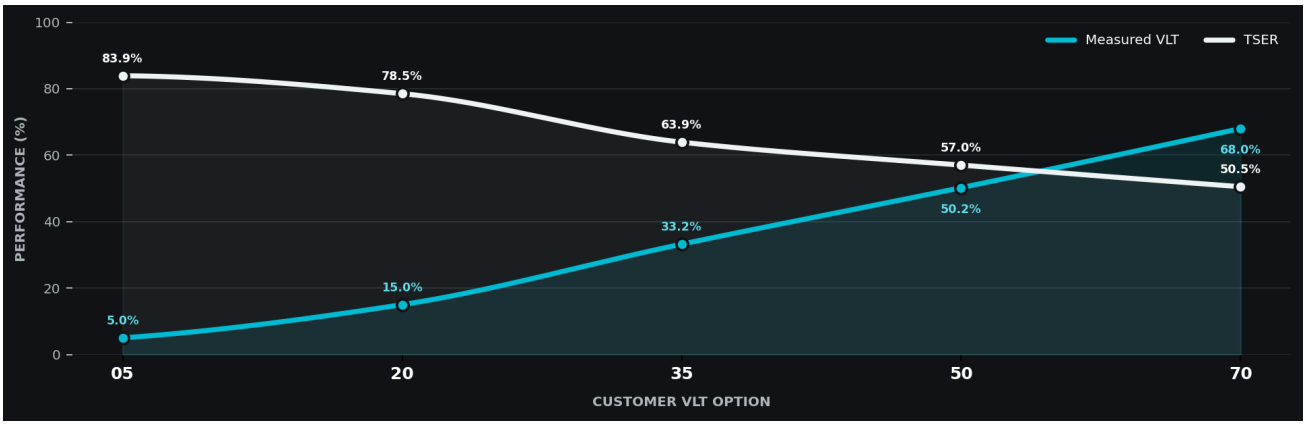
TITANIUM NITRIDE AUTOMOTIVE WINDOW FILM

PRIME-90 / NOMINAL 51 ± 3 µm / CLARITY • COMFORT • PROTECTION

Prime-90 is an automotive window film engineered to balance solar control, optical clarity and everyday cabin comfort. Its Titanium Nitride performance layer delivers high infrared and ultraviolet rejection across five customer VLT options.

5	83.9%	95.5%	99.9%
VLT OPTIONS	MAX TSER	MAX IRR @ 1400 NM	MAX UV REJECTION

VLT VERSUS TOTAL SOLAR ENERGY REJECTION



Customer VLT option is the marketed shade designation. Measured VLT is reported separately in the technical tables.

FILM CONSTRUCTION

LAYER	COMPONENT	FUNCTION
1	Protective liner	Removable surface protection
2	Hard coat	Durable optical surface
3	Titanium Nitride layer	Infrared-management technology
4	Optical TPU film	Colour-stable functional substrate
5	Pressure-sensitive adhesive	Automotive glazing adhesive
6	PET release liner	Removable installation liner

PRIME-90 PERFORMANCE DATA

NUMERIC SPECIFICATIONS BY CUSTOMER VLT OPTION

THERMAL AND OPTICAL PERFORMANCE

VLT	MEASURED VLT	TSER	IRR 1400 nm	IRR 940 nm	UVR	SC
05	5.0%	83.9%	95.2%	92.4%	99.9%	0.14
20	15.0%	78.5%	91.1%	90.1%	99.9%	0.19
35	33.2%	63.9%	95.5%	88.9%	99.9%	0.31
50	50.2%	57.0%	94.3%	88.6%	99.6%	0.37
70	68.0%	50.5%	92.6%	91.8%	99.1%	0.43

SOLAR TRANSMISSION, REFLECTANCE AND CLARITY

VLT	SOLAR TRANS.	PSA VLR	SR VLR	SOLAR REFL.	HAZE	THICKNESS
05	10.5%	4.8%	5.2%	5.6%	0.93	51 ± 3 µm
20	15.0%	5.5%	6.0%	6.5%	0.92	51 ± 3 µm
35	28.3%	6.4%	6.8%	7.6%	1.21	51 ± 3 µm
50	35.0%	7.0%	7.5%	8.0%	1.12	51 ± 3 µm
70	41.5%	7.5%	8.5%	8.0%	0.86	51 ± 3 µm

TECHNICAL DEFINITIONS

TERM	DEFINITION
VLT	Visible Light Transmission: percentage of visible light transmitted through the film.
TSER	Total Solar Energy Rejection: total incident solar energy rejected by the film/glass system.
IRR	Infrared Rejection measured at the stated wavelength; it is not equivalent to full-spectrum TSER.
UVR	Ultraviolet Rejection.
SC	Shading Coefficient, reported by the supplier as SHGC / 0.87.
VLR	Visible Light Reflectance measured from the adhesive (PSA) side or scratch-resistant (SR) side.
Solar trans. / refl.	Total Solar Transmittance / Reflectance measured across 300-2500 nm.

APPLICATION AND PRODUCT NOTES

ITEM	DETAIL
Application	Professional installation on compatible automotive glazing. Installer must confirm local legal VLT requirements before fitment.
Options	Available VLT options are 05, 20, 35, 50 and 70. Measured values remain subject to normal test, glass and manufacturing tolerances.
E-warranty	Eligible Prime installations are protected through Sentrix digital e-warranty registration by an authorised installer, subject to prevailing terms and exclusions.