



Technical Specifications

Testing Items	Specs	Testing Method
TPU thickness	150±15 um	Idometer
Total thickness	310±15um	Idometer
TPU raw material brand	(Japan)	Document
Gum	Ashland (USA)	Document
Release film	One side matte release film one side pet clear 125±5um	Idometer
Tensile property	300kg/cm ²	ASTM D412
Elongation	350%	ASTM D412
Glossiness	>90%	Gloss Meter @60°
	Black paint surface	Applied on black paint surface for 10 min
Light Transmittance	Clarity	Applied on transparent acrylic sheet
	Data	Color meter/transmittance meter
Flatness	No concave, no bump	Visual
Peeling Property	20~25N/inch	Peel strength tester / applied on the stainless steel sheet
Gum type	Methacrylate PSA	
Reserved Gum	No	Applied on paint panel surface Oven 80°Cx24hr, refrigerated cabinet-4°Cx24hr
Scratch resistance (5pt)	4pt	Dry towel, Brass Brush
Thermal Self-healing	100% Self-healing	Dry towel, brass brush 70°C hot water
Chemical Resistance	no damaging within 60s no damaging within 60s	Spray CARB cleaner (Biaobang carburetor cleaner) DMF Testing
Surface Energy	38Dyn	Dyne pen
Hydrophobic Property	R9-R10	JIS P-8137 /Japan Standard JIS P-8137
Stain Resistance(normal temperature)	Can be removed by tissue	Oil— ased marker (deli S552)
Stain Resistance(high temperature)	Glossy, not sticky	Oven 80°C 1 hr. or applied on engine cover exposed for 1 hr
Durability of coating function	Surface energy and stain resistance no fading	70°C hot water soaking for 12h Check surface energy and stain resistance
Anti-yellowing	ΔE< 0.8	QUV accelerated aging test (6500W) 2000h colorimeter
Warranty	7years	Yellowing, existing gum, breaking surface

Warranty :

Estoril extensive warranty certifies all Diamond Pro product lines to be free of any manufacturing and workmanship defects for a period of seven (7) years from the date of installation on painted automotive surfaces.

This warranty covers only those defects which can be attributed to the manufacturing process of the film such as fading, color change, cracking, bubbling or delamination.

Defects or accidents caused by inappropriate installation processes or facilities, intentional misuse, exceptional damage due to large debris, collision or vandalism, among others, are considered part of the products regular wear and tear and are excluded from this warranty.

Please register your product, by completing the form below, to facilitate a quick and efficient process in the event of a warranty claim. Replacement of the defective film is the only form of compensation offered by this warranty and will be provided exclusively upon display of a valid proof of purchase issued by an authorized dealership. All claims should be addressed in first instance to the original dealership or installer, only in cases where such a claim proves unsatisfactory will Estoril provide manufacturer coverage.

This warranty does not cover Diamond Pro products installed on vehicles used for commercial or professional activities, including but not limited to racing cars, courier fleets and rentals.