

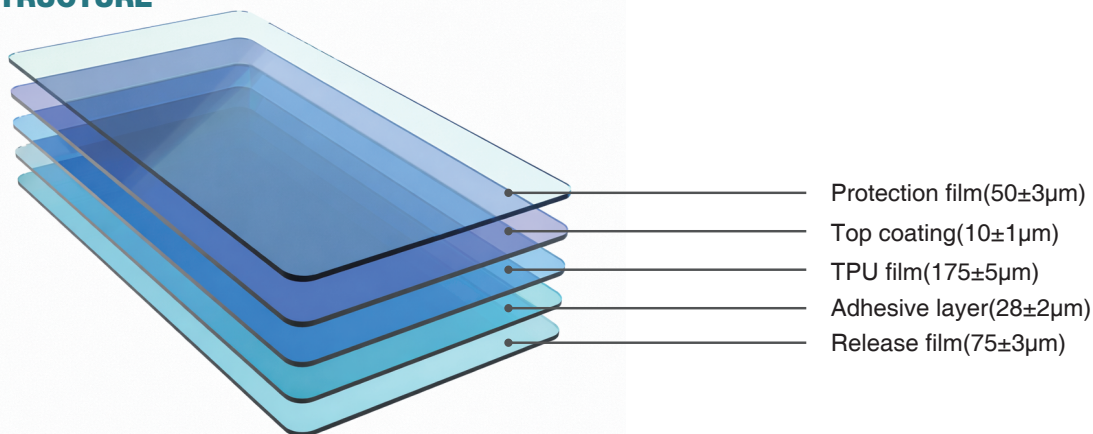
Technical Data Sheet

ONYX 9

PRODUCT DESCRIPTION

ONYX 9 Paint Protection Film (PPF) is manufactured using premium TPU material from Nihon Matai, Japan. It offers excellent workability, durability, stain resistance, and water repellency, making cleaning easy, while boasting strong adhesion through a high-density nano-coating. In particular, ONYX 9 PPF is a rigid-type film with a thickness of $213\pm 5\mu\text{m}$, focusing on paint protection (durability) and physical strength. It effectively prevents scratches on the vehicle's paint surface caused by road debris while driving and features a self-healing function that naturally repairs fine scratches. KAION SHIELD's ONYX Series PPF guarantees superior performance and reliability by passing yellowing tests and quality inspections using specialized testing equipment from the Korea Testing & Research Institute (KTR), an internationally accredited organization.

STRUCTURE



PHYSICAL PROPERTIES

Category	Test Method	Units	Typical Properties
Gloss value	Gloss level @60°		>90
Tensile strength	ASTMD 638	Mpa	>15
Elongation	ASTMD 638	%	>200
Heat resistance	Brass brush 10 times, 50-70℃ hot water for 1 minute		No change
HYDRO-PHILE /PHOBIC PROPERTY	Hydrophile/phobic	/	Phobic
Durability	TEST 1	3,000hours	
	TEST 2	1,000hours	NO change

- * If installing film after recommended shelf-life, re-certification by KAION SHIELD is required.
- * The performance representations and suitability for use described in this Technical Data Sheet are intended as a guide only. Since the specific conditions of product use are known only to the user, it is the user's responsibility to determine whether the product is suitable its intended application.
- * Results may differ when using other testing standards.
- * Reported values are expected properties and should not be used for product certification.
- * The provided technical information consists of representative product data and should not be used for specification purposes.