

VUNYX® SMART SHIELD 150 FILM

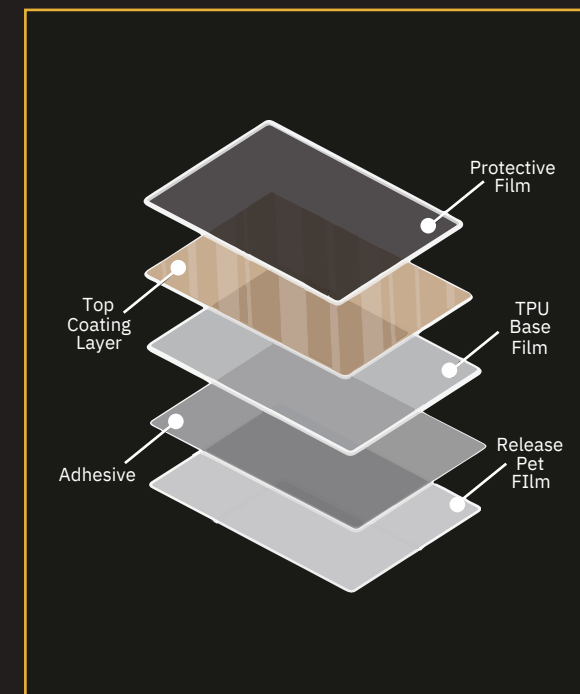


Technical Data Sheet

Vunyx® Smart Shield 150 Film

Vunyx® Smart Shield 150 is an economical, dependable TPU paint protection film engineered for installers who require solid performance, heat self-healing capability, and a clean, glossy finish. Built with high-quality TPU resin and a durable top coat layer, this film delivers essential protection, stable clarity, and consistent installation results.

Vunyx® Smart Shield 150 Film



CHARACTERISTIC	HEAT SELF-HEALING
Characteristic	Heat self healing
TPU base film	made by China Wanhua TPU resin
Adhesive	China
Performance level	Economical type
Size	1.52x15M/ROLL
Color	Glossy
Film thickness	7.5mil(with glue)
TPU base film thickness	150µm
Glue thickness	25µm
Top coating	15µm
Release paper	Matte
Adhesive style	Transparent, polyacrylate, removable, Non yellowing.

Why Professionals Choose Vunyx® Smart Shield 150

• Heat Self-Healing Surface

Light scratches and swirl marks diminish with heat exposure, keeping the surface smooth and glossy.

• High Quality TPU Resin Base

Provides strong optical clarity, flexibility, and resistance to environmental wear.

• Economical Performance Level

Suitable for value-focused installation packages while maintaining reliable protection.

• Non Yellowing Adhesive System

Transparent polyacrylate adhesive ensures clarity and clean bonding without discoloration.

• Glossy Finish Enhancement

Adds depth and shine to the vehicle's paint while preserving its original aesthetic.

• Installer-Friendly Design

Matte release liner and flexible TPU structure support easy stretching, positioning, and trimming.

Features Your Customers Will Adore

• Smooth, High-Gloss Finish

Enhances the vehicle's paint with a clear, glossy shine that looks premium and well-maintained.

• Self-Healing Convenience

Every day, light scratches soften and disappear with heat, keeping the vehicle looking newer for longer.

• Reliable Daily Protection

Shields paint against road debris, minor scratches, stains, and environmental contaminants.

• Long Lasting Clarity

Non-yellowing adhesive and a stable TPU structure ensure the film stays clear and attractive throughout its lifespan.

TEST & RESULTS

PROPERTIES	NOMINAL VALUE	ASSESS METHOD
Top Coat thickness	15µm	ASTM D 347
Base ATPU film thickness	150µm	
Acrylic PSA average thickness	25 µm	ASTM D 347
Peel Adhesion average	1960gf/inch@20min	GB/T 2792
	2480gf/inch@24h	
Gloss 60 degree	93GU	ASTM D 2457
Gravelometer	Pass-no penetration	GM 9508P-02
Elongation@break	300%	ASTM D 882
Tensile strength	21Mpa	GB/T 1040.1
QUV weathering-2000 hours	No visual change	ASTM G154-16 Circulation 1
Gasoline(60min exposure)	No visual change	
Soap/detergent(60 min submersion)	No visual change	

DESCRIPTION	THICKNESS	ROLL SIZE
Product Specification	7.5mil	60"*50'
	-	-
	-	-

GENERAL CHARACTERISTICS	
Service Temperature Range	-40°F to 212°F (-40°C to 100°C)
Shelf Life	2-Years stored at 70°F (21°C) and 50% RH
Recommended Installation Environment Temperature	15°C – 30°C

Notice: The representation of performance and suitability for use contained in this technical data sheet are meant only as a guide. Since only the user is aware of the specific conditions in which the product is to be used, it is the user's responsibility to determine whether the product is suitable for intended use.



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