

Technical Data Sheet



Product Description :Automotive Paint Protection Film, Thermal Polyurethane

Product Name :Hexa **Tornado**®

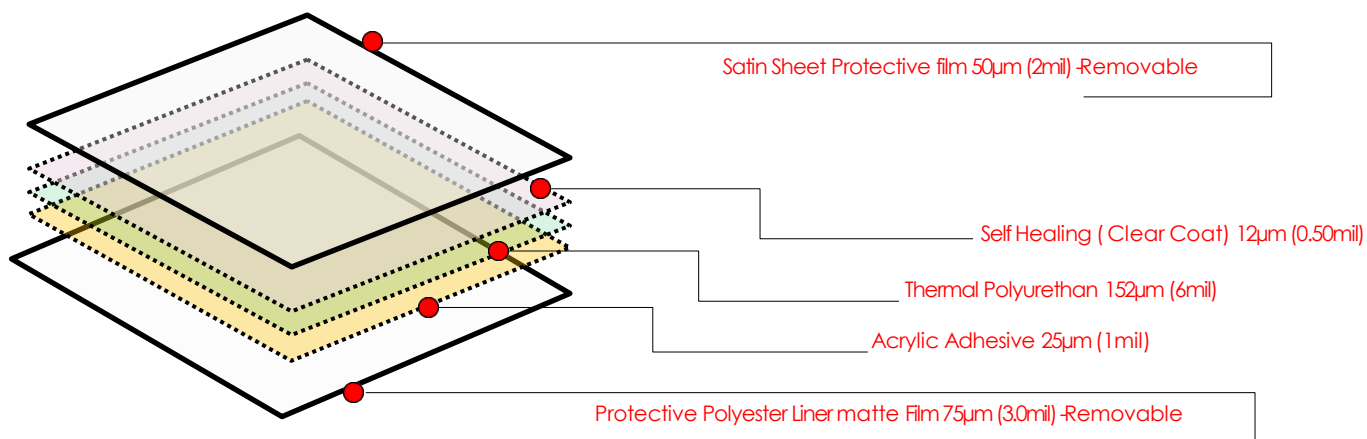
Film Category: TPU-Ultra Glossy

Product Dia: W60"x L49.2ft

Article No. 06710515

TDS Version	TDS No.	Date of Issue	No. of pages
02-1	139-000029	March 2026 -Modified	4

Product structure



Total Thickness W/O release the liners 314µm /12.3mil Total

Film Thickness Ready To Use 189µm / 7.5mil

Taken in consideration -/+0.2

Tornado Paint Protection Film (PPF) has been specially manufactured for HEXA

It's a crystal-clear paint protection film engineered with HEXA exclusive. Powered by Hydrophilicity & Hydrophobicity coating Technic -Smart Advanced Polymers-Elastomers

In order To prevent spot or stain appearance .Rainwater ,drainage water and saline water.

Delivering an exceptionally High-Gloss appearance and a remarkably durable Crystal finish.

Designed to preserve a permanent "glistening look, Outstanding clarity and shine.

The advanced coating significantly enhances resistance to contaminants such as water spots, insects, bird droppings, road oils, exhaust residue, and Environmental pollutants and airborne salts in coastal areas. Provide also preventing staining, yellowing, and surface dullness over time.

Tested 3000h/QUV aging resistance -ASTM G154-16/Circulation 1

With superior impact-absorption and shock-proofing properties, **Tornado** effectively protects vehicle paint from stone chips, sandstorms as well as scratches and holograms , car-wash brush damage, and everyday wearing -Anti Aging

With its highly efficient self-healing feature, the treatment rate here is 100% without trace

Tornado delivers one of the highest levels of protection available in unique paint protection films, Ensuring long-lasting Aesthetics, Durability, and peace of mind

Tornado is characterized by the aforementioned features.

to provide a service, sustainability and Five year warranty or 150,000km. whichever first.



Technical Specification

Top Coating

Properties	Test Method	Test Value
Hydrophilic	ASTM D870 Immersion Test	Hydrophobic
Self Healing	ASTM D1044-19	100% Self Healing
Surface Permeability Resistance	ASTM D4828	No Trace

Glossy&Purity

Properties	Test Method	Test Value
Product Surface Glossy &Haze	ASTM D 2457 ASTM D1003 Gloss Meter @30° LS195	≤117 % 3%

Anti Yellowing / Aging

Properties	Test Method	Test Value
UV Rejection	LS162	99.9%
Weather Resistance	ASTM G154-16 Circulation 1 3000h QUV Aging	$\Delta E^*ab < 2$

Conduct of Adhesive

Properties	Test Method	Test Value
Acrylic Layer Peeling Force/20min	ASTM D3330	1537 gf/inch
Acrylic Layer Peeling Force/24h	ASTM D3330	2435 gf/inch

Mechanical Capabilities

Properties	Test Method	Test Value
Elongation @Break –Coating	ASTM 882	152%
Tensile Strength	ASTM 882	24.7 Mpa
Elongation @Break –Product	ASTM 882	369.3%
Elastic Modules	ASTM 882	6.61 Mpa



Film Physical construction

Properties	Test Method	Test Value
Satin Sheet Protective Film	ASTM D6988	50µm
Total Thickness film	ASTM D6988	314µm
Film Ready To Use	ASTM D6988	189µm
Protective Liner Matte Sheet Film	ASTM D6988	75µm

Warranty Policy & Terms

Our warranty represents a true commitment to delivering products that meet user demands. At Hexa, we take on our shoulder in standing behind this product in partnership with our valued customers.-Service Provider We are honor what we promise and deliver exactly what is documented.

Each installation is backed by a five-year or 150,000 km. whichever first. Premium workmanship and skills warranty Granted by Hexa assuring the integrity of the film's adhesion and protecting against any lifting or detachment under normal use. The warranty period begins from the official installation invoice date. Or if the film loses any of its properties, specifications during this period

Coverage is valid only when the film is applied to original factory paintwork, ensuring optimal performance and long-term protection. Surfaces that have been repainted, repaired, or altered are excluded.

This warranty is strictly non-transferable and is extended exclusively to the original vehicle owner, reflecting our commitment to quality, precision, and long-term customer confidence.

You are required to register the products serial number to issue the warranty certificate via our official website at the following link <https://hexa-sa.com/Certificates/login>

The film installation must be performed only by Trained, Professional, and Authorized Technicians.

Any installation carried out by unauthorized individuals or outside approved car care centers voids this warranty entirely.

Film by unqualified persons or individuals who have installed this film outsource of car care centers and individually, because repeated experimentation are expensive and costly !

The consumer (Vehicle Owner) must ensure:

Adherence to all film care instructions and maintenance guidelines provided by Hexa or the service provider.

What This Warranty Covers

This warranty guarantees that, throughout the warranty period, the product will not:

- Yellowing
- Cracking
- Peeling

Or Lose its essential functional properties

In case of a verified manufacturing defect affecting the core performance of the film, the damaged section will be replaced free of charge, even if replacement of the entire film is required

Not Warranted

If the installer notices visually or touched practically that there are blemishes on the film and He did not disclose. Or if the product is damaged due to wear-out or damaged manual hand tools related to the installation of the product. as cutting blades or squeegee electric tool as well as hot air gun or other steam devices. If you wash or clean the vehicle by high ph. detergent cleaner



Also, any damage caused by automatic car washing machines to the tip or Paint Protection Film part all kinds of traffic accident ,collision or friction are not covered .taken in consideration the storing condition of the products case in the unsuitable atmosphere such as high temperature or humidity doesn't cover also by warranty

Limitation

All that stated in this policy are subjected to the Hexa **Tornado** Paint Protection Film Article Number 06710515 In no case can this policy apply to an installation carried out induvial installing

Usage of our product Hexa **Tornado** falls within the technical data and accordance with the specification are contained and shown in our technical datasheet via our official website www.hexa-sa.com

The installers are responsible for applications, instructions ,and recommendations

Product Storage

Stored vertically

Storage Area :No Dust -Clean environment

Storage Period before use :One Year

Storage Temperature +15°C to +25°C (+59 °F to +77 °F)

Relative humidity during storage 50%

Always Keep The Product in Original Packing

We Are Listing well to our customer

we are providing advices ,Consulting, Supporting and to place an ideas ex-change

To Answer your inquires and Your Questions Contact Us At

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Integrity

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