

Data sheet

ZCX RAPIDWRAP Performance Film

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Date
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Description

The Performance film is based on bionic researches (biology and technic). Nature teaches that most creatures (insects, plants and fishes) use the efficiency and advantages of structured surfaces in their environment. A well-known example is the shark skin. Another example for the efficiency of structured surfaces is the golf ball.

Technology

The Performance film is a completely new developed film with an innovative and very noticeable visual appearance. The utilized pattern structure reduces the aerodynamic drag and increases the performance on the applied body. Furthermore a nice feature of the Performance film is the stone guard because of its thickness of 0,3 mm. The film is also printable and also useable for the labeling of company cars or for advertising as well.

Please note

Information on physical and chemical characteristics is based upon tests, however, are not guarantees. The values listed herein are to be considered as guidelines. Given the diverse application possibilities and the continuing development of new applications, it is recommended that the buyer checks the suitability and condition before each use, as well as assuming all risks regarding such use. The seller is liable for damages only up to the amount of the purchase price under exclusion of indirect and accidental damage.

General properties – PVC film

300 µm calendered PVC-soft-film, UV-stabilized, polymeric quality.

Features / Attributes	Norm	Unit		Target	Min.	Max.
Dimensional stability	DIN 53377	%	MD			-3,2
Embossing depth	ISO 4288	mm			0,090	
Tensile stress at break	ISO 527-3/2/200	N/15mm	MD		20	
Tensile strain at break	ISO 527-3/2/200	%	MD		200	
Thickness	ISO 2286-3	mm		0,300		

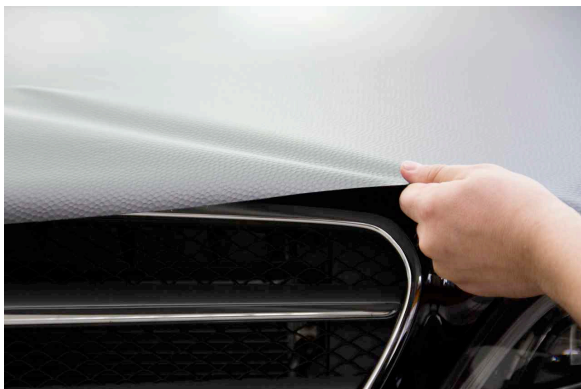
Storage

- Durability: 2 years
- Stocking conditions: Clean and dry environment without direct solar radiation
- Very important: Never store the film horizontally

Application guide



1. All surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any other contamination.
2. Application on flat or slightly curved surfaces with dry application method.
3. Application on convex or concave areas - heat the film with a heat gun before conforming it over the convex area. **Be careful:** The Performance film doesn't tolerate high temperatures and tends to be polished. If possible please take a sample and test the heat tolerance at this sample.
4. Because of its thickness the Performance film is not 3D deformable in some occasions. On complex areas with high tension you have to work with cuttings, otherwise it's possible that the film will release from the surface after a few weeks.
5. If it's possible overturn the film on all edges for about 10 mm - overturning is advisable to achieve good wrapping results. Therefore some parts such as back lights, front lights or back and head bumpers should be removed.
6. Pay attention that the film isn't stretched into a deep corrugation while wrapping a car – normal tension → the film may pop out / high tension makes the film pop out. We therefore do not recommend covering these areas (sideview mirrors).
7. The film is easy to remove, leaving almost no adhesive residue on car body. Eventual adhesive residues can be removed with isopropyl alcohol. Removability is warranted only on original manufacturer paint.



General properties - Adhesive

High-quality, REACH and RoHS-compliant, polymeric PVC film. Repositionable film with final high adhesion to a wide variety of substrates including varying plastics, foamex, glass and aluminium. The airchannels in the adhesive layer leads to a bubble-free application and the vinyl can be applied without any water. The underground should be clean, grease-free and dry before application.

Adhesive structure

Support	PVC film, polymeric, Dimple structure
Interliner	PE-coated paper, single side siliconized, white, structured, 160g/m ²
Adhesive	Pure polyacrylic, permanent, grey
Total thickness	0,35mm
Adhesive weight	50g/m ²

Adhesive characteristics

	Average Value	Test Method
Adhesion on steel: (after 20 min.)	8 N / 25mm	AFERA 5001
Adhesion on steel: (after 24 hours)	11 N / 25mm	AFERA 5001
Dimensional stability: MD	< -3 %	FTM 14
Dimensional stability: CD	< 1.5 %	FTM 14
Flammability: On aluminium	Self-extinguishing	DIN 75200

Environmental Performance Adhesive

Chemical resistance:	
24 hours at room temperature and 4 hours in propanol	no change
24 hours at room temperature and 48 hours in water	no change
Temperature resistance:	
24 hours at room temperature and then 24 hours at 80 ° C	no change
24 hours at room temperature and then 24 hours at 140 ° C	no change
Humidity resistance:	
24 hours at room temperature and then 24 hours at 38 ° C and 98% humidity	no change
Application temperature	min. 0 ° C
End-Use Temperature range:	- 40 ° C to + 90 ° C
Durability:	2 – 5 years *

*The estimated durability is based on accelerated ageing tests and refers to a vertical exposure under middle European climates. The durability of the product depends on the substrate's preparation, the atmospheric conditions and the environmental influence. Exposure to extreme conditions (tropical climate, high humidity, high UV-light exposure or polluted areas) can decrease the durability in a dramatically way.

More Informations

Please find further informations on our website: <http://www.zdrax.de>