DFENCE ONEX

Manufacturer source: FTP.FPS.119.A 03.23

PRODUCT DESCRIPTION

DFENCEONEX is a transparent adhesive-coated film, which is self-healing at ambient temperature and particularly suitable for protecting a car's interior surfaces (excluding textiles and surfaces incompatible with wet application). Its excellent shock-absorbing properties protect areas such as dashboards, door handles, window controls, touch screens etc. against stains, abrasion, and scratches caused by keys, nails, jewellery, etc. The film can also be used to protect the external vehicle's car body against chips caused by stones, insects, car doors, washing brushes, etc. Glossy surface finish.

FILM FEATURES

Property	Value	Test method
Total thickness (film + adhesive)	130 µm (5.1 mil) ± 10 %	-
Tensile strength	> 40 N/25 mm	HEXNFX41021
Elongation at break	> 200 %	HEXNFX41021
Shrinkage after 168 hours at 70 °C (158 °F)	< 0.2 mm	HEXRET001

Thickness is indicative; the other mechanical properties are average values. mil = one thousandth of an inch (25.4 µm).

ADHESIVE PROPERTIES

Average values measured at the time of publication of the manufacturer sheet.

Property	Value	Test method
180° peel strength, 20 minutes after application	16 N/25 mm	HEXFTM001
180° peel strength, 24 hours after application	17 N/25 mm	HEXFTM001
Initial tack	12 N/25 mm	HEXFTM009
Liner release force	0.1 N/25 mm	HEXFTM003

ADHESIVE

Solvent-based acrylic adhesive. Immediate, permanent adhesion; optimum adhesion after 24 hours of contact.

APPLICATION INSTRUCTIONS

Wet application method.

Inside the vehicle, protect every moisture-sensitive surface that could be exposed to application liquids. Use liquids sparingly and preferably moisten the film rather than the surface to be covered. HEXIS accepts no liability for vehicle damage resulting from the use of liquids.

Recommended minimum application temperature: +10 °C (+50 °F). Apply preferably between +15 °C and +35 °C (+59 °F to +95 °F).

Operating temperature range: -40 °C to +90 °C (-40 °F to +194 °F).

Suitable for interior vehicle components, excluding textiles and surfaces incompatible with wet application, and interior or exterior areas exposed to everyday damage from keys, jewellery, nails and shoes.

DFENCEONEX can also protect smooth, plain full-wrap films without raised decoration: HX20000, non-textured HX30000 and HX30SCH00. This application is at the customer's judgement; HEXIS recommends pre-cut DFENCEONEX. The permanent adhesive can damage the underlying wrap when removed. HEXIS accepts no liability for damage to the wrap caused by application or removal of DFENCEONEX.

The film self-heals at ambient temperature. The disappearance of surface scratches accelerates as the temperature increases.

Cut the film to the size of the part to be covered, allowing an extra 10 cm (4 in.). Keep the remaining film on its original core. Do not divide the roll into smaller rolls by length or width, or repackage the product. Immediately secure the roll after use with masking tape or roll clamps to preserve its properties.

Apply to a clean surface free from dust, grease, wax, silicone and other contaminants. Pay particular attention to corners and edges so the film can adhere properly.

On painted substrates, apply only to undamaged original paintwork. Application to, and removal from, non-original or damaged paintwork are at the installer's judgement and risk.

RECOMMENDATIONS FOR USE

Before application, check that the surface is compatible with the application liquids and with adhesive-removal products such as SHAGREMOV. HEXIS accepts no liability for damage caused by the use of liquids.

HEXIS offers plastic and felt squeegees in a range of hardnesses to facilitate application.

STORAGE

Storage period before use	1 year
Storage temperature	+15 °C - +25 °C (+59 °F - +77 °F)
Relative humidity	50 %
Storage environment	Dust-free environment
Packaging	Original packaging
Roll orientation	Upright

DURABILITY - CENTRAL EUROPEAN CLIMATE

Up to 7 years under normal road-use conditions.

When applied over a full-wrap film with a durability of less than 7 years, DFENCEONEX can extend its resistance to yellowing and cracking by up to 1 year, without exceeding the durability of DFENCEONEX.

Durability depends on the substrate, its preparation, exposure conditions, and the type and frequency of cleaning. A south-facing exposure in the northern hemisphere is estimated to halve durability; the same applies to horizontal exposure. Temperatures above +50 °C (+122 °F) and pollution significantly reduce durability. For other exposures and geographical areas, consult the manufacturer's conversion tables under Professionals / Durability on www.hexis-graphics.com.

NOTES

If in doubt, seek an expert assessment of compatibility between the film and the glass concerned.

The installer must check product suitability for each substrate and application. Published information is based on regular laboratory measurements and does not constitute a binding guarantee. The seller accepts no liability for indirect damage or claims exceeding the replacement value of the purchased product. Specifications may change without notice; current versions are available on www.hexis-graphics.com.

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