# **VELOPEX E SPEED**

#### DENTAL RADIOGRAPHIC FILM

#### Characteristic

Velopex E is a double-emulsion high speed non-screen X-ray film (ISO Class E) with high contrast and fine grain that provides high image quality and outstanding definition of detail . The film is intended for direct-exposure for intraoral radiographs.

The high speed of the film enables a reduction of the X-ray dose by 30 % in comparison with dental films of D class, which reflects a world-wide move towards greater patient protection.

The correct exposure times as well as dose values (impulses) should be reduced on the exposure equipment used.

#### Film base

Velopex E is coated on a dimensionally-stable bluish 0.175 mm thick polyester film base. The film is provided, on both sides, with protective and antistatic layers protecting the film against mechanical damage and eliminating the static charge.

#### **Packing**

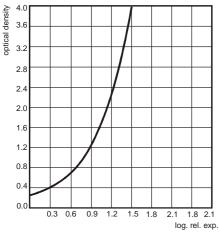
Each sheet of film is enclosed in a light-tight plastic envelope.

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size ISO	size [mm]	number of films in one packet	number of packets in one packing
0	22.0x35.0	1	100
2	30.5x40.5	1	150
2	30.5x40.5	2	150

This soft and hygienic packing protects the patient, facilitates handling of the film and allows disinfection of the cover with common disinfectants.

Every film packet is protected with a lead sheet on the side opposite to radiation source (marked as "back" on the packet). Each film is provided with an embossed dot located near the edge of the film that serves as an indicator of the radiation side on the processed film. The raised dot indicates the side facing the radiation source.

#### Characteristic curve



## **Darkroom illumination**

Velopex E can be exposed in daylight. The processing should be carried out in a darkroom using indirect dark-red or olive-green safelight. Recommended safelight filters are: KODAK GBX-2, Agfa R1 (dark-red), Agfa G7 (olive-green).

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#### Processing

VELOPEX E can be processed manually or in auto processors such as the range of Velopex dental processors. The correct chemicals should be selected according to whether processing is to be carried out manually or in auto processing machines such as the range of Velopex dental processing machines. Velopex 1+1 concentrate dental chemicals for auto processors are recommended to obtain the best results, but any good trademarked chemicals may also be used For manual processing a manual type developer such as KODAK GBX should be used.

# Exposure conditions for Velopex E

X-ray apparatus adjustment: 50 – 70 kV and 7 – 15 mA (use correct values recommended by the apparatus manufacturer)

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Adjustment: 65 kV, 10 mA, 20 cm focus-film distance					
Maxillary	Exposure	Mandibular	Exposure		
Frontal	0,18 s	Frontal	0,14 s		
Premolar	0,21 s	Premolar	0,14 s		
Molar	0,25 s	Molar	0,18 s		

For making exposures on children reduce the exposure time approx. by 33%. For making exposures of blank areas reduce the exposure time approx by 25%. For obtaining the best possibe results all the necessary changes to both exposure and other parameters should be made. (exposure time, mA, kV or any changes of the focus-film distance)

#### Storage

Velopex E should be stored in its original packing in a cool ,dry place at a temperature of 10 °C to 21 °C and a relative humidity of 40 – 60 % and should be protected from damaging fumes, gazes and ionizing radiation. For long-term storage the film should be stored in a refrigerator. Before use, the film in its intact original packaging must be allowed to adjust to room conditions for at least  $2-4\ hours$ .

## Warning

The use and processing of Velopex E film results in waste that is classified as potentially hazardous and for this reason it should be disposed of in an ecologically sound way and using recycling where possible. Removal and disposal of the waste should be in compliance with national reglations.

Classification of the waste:

Polyvinylchloride waste (plastic packets) developer liquid waste Lead waste fixer liquid waste

The product has CE marking and has been produced and marketed in conformity with a quality system according to the international standard EN ISO 9001:2000, EN ISO 13485:2003.

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