

VELOPEX E/F SPEED

DENTAL RADIOGRAPHIC FILM

Characteristic

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

The high speed of the film enables a reduction in the X-ray dose of 50 % in comparison with the dental films of D class.

Film base

Velopex E/F 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.

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 of the processed film. The raised dot indicates the side facing the radiation source. Films are normally packed with a single film in a packet, but double packed film used in some countries can also be produced.

Darkroom illumination

Velopex E/F 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).

Processing

VELOPEX E/F FILM can be processed or manually or in auto processors such as the range of Velopex dental processors. For AUTO processing Velopex 1+1 concentrate dental chemicals are recommended to obtain the best results, but any good trademarked chemicals may also be used. For MANUAL processing, a good brand of manual chemicals should be used. E.g. KODAK GBX. .

Exposure conditions for Velopex E/F

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

Adjustment: 65 kV, 10 mA, 20 cm focus-film distance			
Maxillary	Exposure	Mandibular	Exposure
Frontal	0.13 s	Frontal	0.10 s
Premolar	0.15 s	Premolar	0.10 s
Molar	0.18 s	Molar	0.13 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 possible results all the necessary changes of exposure parameters (i.e. exposure time, mA, kV or any changes of the focus-film distance) need to be reflected in other parameters.			

Storage

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

Warning

The usage and processing the Velopex E/F film results in waste which is classified as potentially hazardous or damaging to the environment and for this reason ecological recovery and recycling of the waste materials should be carried out. Disposal of waste should be in compliance with national laws.

Classification of the wastes:

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.

Distributed by :

Hexagon International (GB) Ltd , UK

Tel (44) UK 1442 871710

Website www.HexagonLimited.com

E Mail info@HexagonLimited.com