

# VELOPEX E

## 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 detail definition. The film is intended for direct-exposure routine intraoral radiographs.

The high speed of the film enables to reduce the X-ray dose of 30 % in comparison with the dental films of D class, which complies with a world-wide tendency for patients' protection.

The used appliances enable to correct exposure times as well as dose values (impulses).

### 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 preserving the film against mechanical damages and eliminating the static charge.

### Packing

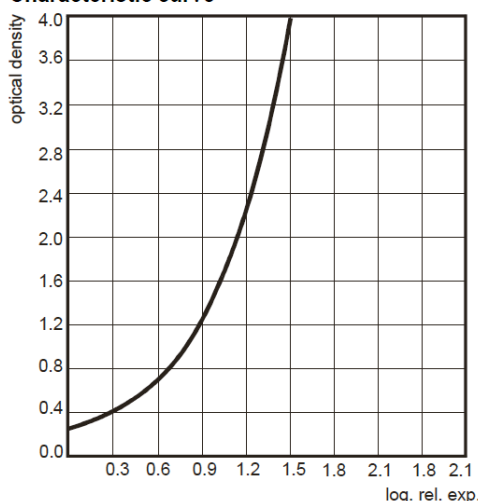
Each sheet of film is enclosed in a light-tight plastic envelope.

size ISO	Size (mm)	number of films in packet	Number of packets in one packing
0	22.0x35.0	1	100
2	30.5x40.5	1	150

This soft and hygienic packing protects the patient, facilitates manipulation with the film and enables disinfecting the cover with common disinfectants.

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

### Characteristic curve



### Darkroom illumination

VELOPEX E can be exposed in daylight. The processing shall 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 can be processed manually or in processors. The VELOPEX solutions are recommended for processing the film to obtain the best results, but any good trademarked chemicals may be used too. E.g. for manual processing is possible to use the developer of KODAK GBX. For processing times, please follow the manufacturer's instructions.

Automatic processing	Manual processing
4.5–5.0 min / 25°C	5.0 min / 20°C
	4.0 min / 22°C
	3.5 min / 24 °C
	1.5 min / 28 °C

### Exposure conditions for VELOPEX E

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

Adjustment: 65 kV, 8 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 of children reduce the exposure time approx. by 33%. For making exposures of empty patches reduce the exposure time approx. by 25%. For obtaining the possibly best results all the necessary changes of exposure parameters (i.e. exposure time, mA, kV or any changes of the focus-film distance) shall be reflected in other parameters.

### Storage

VELOPEX E 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 the intact original packaging should be allowed to adjust to room conditions for at least 2 – 4 hours.

### Warning

Using and processing VELOPEX D film results in wastes that are classified as special wastes. For this reason ecological disposal and recycling is necessary. The disposal of the wastes shall be in compliance with the disposal or recycling national laws.

### Classification of the wastes:

Polyvinylchloride wastes                      developer chemical  
Lead wastes    fixer chemical

The product has CE marking and has been produced and marketed in conformity with a quality system according to the international standard EN ISO 9001:2008, EN ISO 13485:2003.