

REPRO 10

Technical Information

Repro 10 is an orthochromatic film, specially developed for fine line art applications for exposure in a contact frame or in a camera.

Repro 10 is an universal type and can be developed in any Rapid Access or Hybrid chemistry.

Emulsions are coated on a 0.100 mm (0.004 inch) thick , clear polyester base (PET).

■ Applications

The film is used for high quality work in the encoder industry, chemical milling and for cartographic and industrial applications with high demands for image quality and scratch resistance.

■ Characteristics

High photographic speed

High contrast (steep gradation and gradation toe)

Wide exposure and processing latitude

Low minimum density with excellent UV-transmission

High resolving power

High maximum density

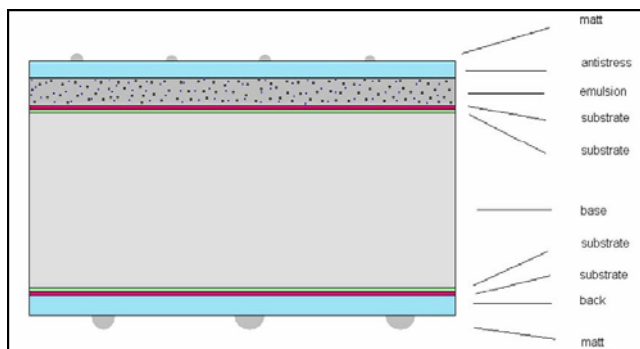
Anti-static layer for dust-free handling

Low pinhole level in contact applications

Anti-stress layer to protect against scratches and abrasion

Special matte particles in the emulsion layer to prevent Newton rings

■ Layer structure

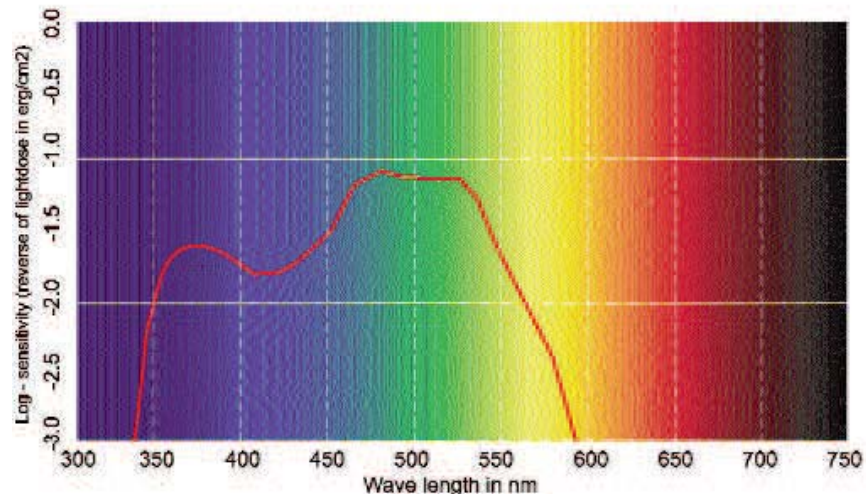


Layer	Type / Composition	Size / Thickness
Matte on emulsion side	PMMA	3.1 μm / 0.12 g/m ²
Antistress	Gelatine	1.4 μm
Emulsion	Gelatine + Silverhalide crystals	3.4 μm
Substrate 2	Bounding	0.2 μm
Substrate 1	Bounding	0.1 μm
Base	PET	100 μm / 0.004 inch
Substrate 3	Bounding	0.1 μm
Substrate 4	Bounding	0.2 μm
Back	Gelatine + Antihalation colour	5.1 μm
Matte on back side	SiO ₂	4.2 μm / 0.35 g/m ²

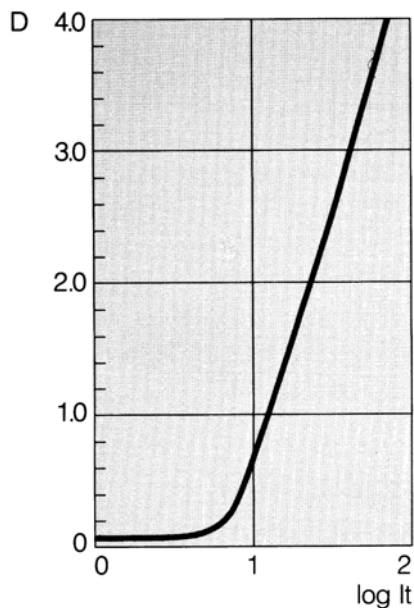
■ Photographic data

- Colour sensitivity

Repro 10 is green-blue-violet sensitive (400 – 550 nm)



- Characteristic curve



Dmax	4.35
Dmin	0.03
Gradation toe	2.5
Gradation	9.5

■ Storage

Non-processed photographic film has a limited shelf life. Unopened boxes can be safely kept until the expiry date mentioned on the label. Film boxes are preferably kept flat, at a temperature of 21 °C and at 50% relative humidity. Remove the outer packaging before taking the film into the working room, to avoid dust contamination of the clean room area.

■ Production guidelines

Workroom lighting

Red light. Recommended : EncapSulite R10 or 1A safelight filter

Exposure

The film is designed for exposure with camera or in contact frame. The correct exposure will vary, depending on the exposure equipment and the processor used.

Processing

Repro 10 films can be processed in rapid access or deep tank processors or eventually in tray.

Recommended processing conditions

Developers	Idealine Pdev G 101 c or equivalent rapid access developers
Developing time	R.A. 30 s at 35°C / 95°F ; deep tank 60 s at 26°C / 79°F ; tray 90 s at 21°C / 70°F
Developer replenishment	200 ml/m ² or 0.65 oz/ft ² (50 % image blackness) + 1 l or 32 oz / 24hrs against oxidation
Fixer	Idealine Pfix or G 333 p, or equivalent at 30 - 33 °C / 86 – 91 °F
Fixer replenishment	500 ml/m ² or 1.5 oz/ft ² without fixer electrolysis 250 ml/m ² or 0.8 oz/ft ² with fixer electrolysis (50% image blackness)
Wash	20 °C

■ Packaging

Repro 10 films are supplied in special packaging for optimum protection during transportation and storage. With the selection of the packaging materials the possibility to recycle was taken in account. The amount of packaging materials is reduced.



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