
TECHNICAL INFORMATION**KENTHENE RC**

KENTHENE – GRADED BLACK AND WHITE PAPER, ON A RESIN COATED BASE.

For those who prefer the qualities of traditional graded papers on a resin coated base, KENTHENE offers more than just an alternative.

KENTHENE is a high quality versatile paper, with truly superior blacks. A significantly deeper, richer black can be achieved compared with many alternatives and in a fraction of the time, due to its high speed sensitive emulsion. Designed for fast processing with superior dimensional stability, KENTHENE is available in Glossy and Fine Lustre surface finishes.

Superior lustrous blacks of neutral image tone, brilliant base whites and excellent tonal rendition characterise KENTHENE, the discerning alternative for those who prefer graded papers.

Product Description

KENTHENE is a resin coated medium weight paper with a high speed graded emulsion. It is available in contrast grades 1 - 3.

Surfaces

- **Glossy:** This paper has built-in glaze to provide the maximum black density and overall print brilliance. Maximum gloss is achieved through hot air drying.
- **Fine Lustre:** A semi-matt surface provides a quality enlarging paper with low reflectance properties which facilitates print retouching.

Packaging

Kentmere black and white photographic papers are packed in a black plastic bag, then an outer cardboard box or envelope and finally sealed with a label and tape. The plastic bag helps protect the paper from humidity and fumes as well as being light proof.

Although the black plastic bag is light proof, we would recommend that it is also returned to the outer cardboard container before exposure to white light as small holes can develop in the plastic bag with use.

Storage

All Kentmere black and white photographic papers should be stored in their original packaging, including the black plastic bag. The plastic bag protects the paper from harmful darkroom fumes and humidity. Ideally the paper should be stored in a cool dry environment preferably at temperatures below 20°C. For prolonged storage, a freezer can be used. In either case, allow sufficient time for warming up and do not allow condensation to form on the paper.

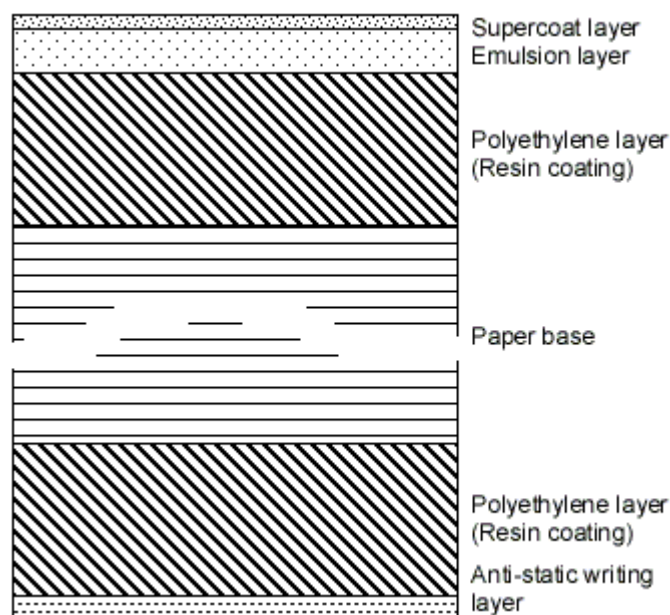
Paper Structure**Paper Base (medium weight)**

The paper is 190 g/m² coated on both sides with 40 g/m² of polyethylene giving a base weight of approximately 270 g/m² and a thickness of approximately 245 µm.

Coated emulsion layer

The light-sensitive silver halide emulsion layer has a silver content of approximately 1.6 g/m². This is covered with a gelatine supercoat which protects the emulsion from stress fogging and physical damage and also contains a developing agent.

Paper Structure continued



(Not to scale, for information only)

Sensitivity

ISO Paper Speed (ISO speed to ISO 6846 - 1992)

Kenthene grade	1	ISO P320
	2	ISO P320
	3	ISO P320

Exposure

KENTHENE is designed for use with tungsten or tungsten halogen light sources.

Cold light source enlargers can be used, but they may impact on the grade achievable.

Contrast range (ISO speed to ISO 6846 - 1992)

Kenthene grade	1	ISO R100
	2	ISO R80
	3	ISO R60

Maximum density

KENTHENE will achieve the following maximum densities:-

Glossy 2.00 – 2.20

Fine Lustre 1.90 – 1.95

(The Fine Lustre surface contains matting agents which reduce the maximum density achievable)

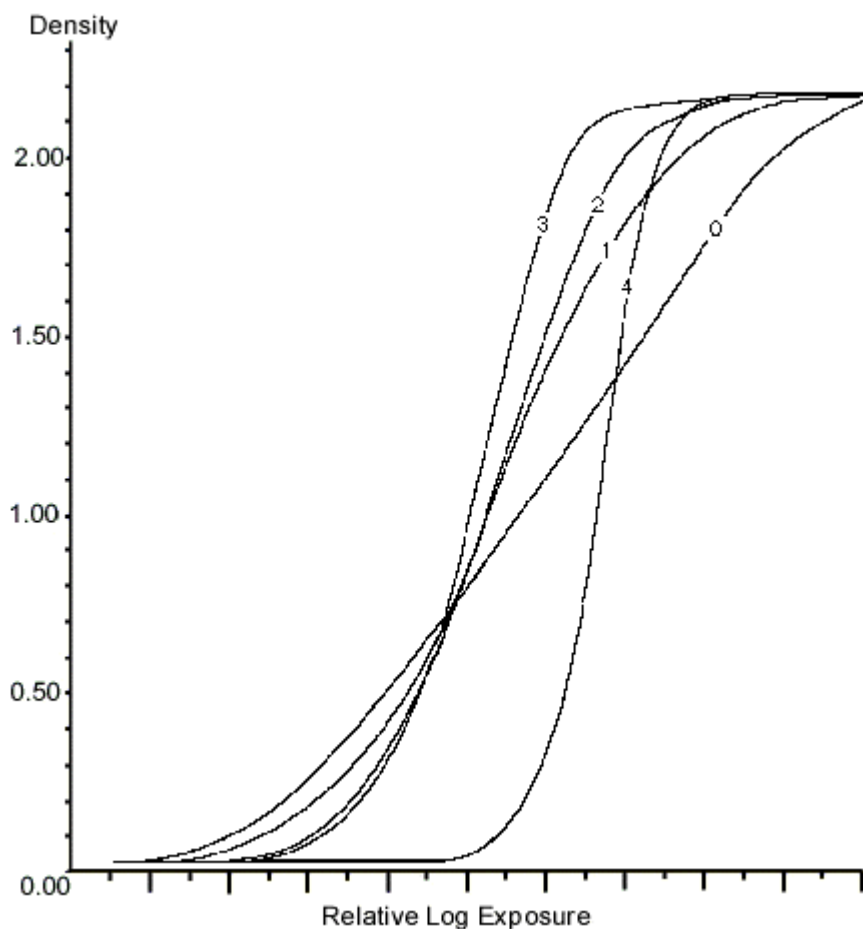
A small amount of production tolerance is included, but the density achievable also depends on paper age, storage conditions and processing.

Other developers and fixers should give comparable results.

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Density/Characteristic curves

(Glossy surface)



Results achieved using ILFORD Multigrade Developer at 1 + 9 at 20°C as recommended under processing instructions. Other recommended developers and fixers should give comparable results.

Note, the above curves are based on a d_{max} of 2.20 being achievable, but as shown from the d_{max} values quoted on page 2 – dependent on the product surface being used, the d_{max} value can be lower.

Safelighting

KENTHENE graded papers have conventional bromide emulsions, which can be used under standard safelights for non-VC type printing papers.

Good darkroom practices should be adopted by keeping safelight exposure to a minimum and returning unused paper to its original packaging.

Safelight filters which are suitable for use with KENTHENE graded paper are :-
ILFORD 904, ILFORD 902, and Kodak OA, OB, OC, or 1A.

Fluorescent safelight tubes are also suitable.

Other safelights can be used, but tests should always be carried out first.

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PROCESSING

To maximise d.max and tonal rendition, a developer and fixer such as ILFORD Multigrade Developer and ILFORD Hypam or Rapid Fixer are recommended.

Equivalent products from other manufacturers should give similar results.

The below table shows recommended dish processing conditions for use with ILFORD Multigrade Developer and ILFORD Hypam fixer.

If using another manufacturer's chemistry, refer to their instructions for recommended processing conditions, to achieve similar results.

KENTHENE graded papers are not suitable for use with activation chemistry.

Chemistry	Dilution	Temp.	Time (seconds)
ILFORD Multigrade Developer	1 + 9	20oC	60 - 80 s
ILFORD Multigrade Developer	1 + 14	20oC	90 - 120 s
ILFORD Ilfostop bath	1 + 19	20oC	10 s
ILFORD Hypam or Rapid Fixer	1 + 4	20oC	30 s
Wash in running water	-	-	2 minutes

Drying

KENTHENE graded paper can be dried using any standard resin coated paper drying methods, these include:

- Warm air drying up to temperatures of 80°C.
- Atmospheric drying, having removed excess surface water using a suitable print squeegee.
- Warm air drying, as in purpose made print drying cabinets.
- Infra-red dryers such as the ILFORD ILFOLAB 1250 Dryer or similar.

Note:- KENTHENE graded papers, as with all resin coated papers, should NOT be used with a rotary glazing/drying drum or flat bed glazing/drying press.