

Conqueror Laid Brilliant White (ECF)

Technical Information

√ = amendment + = addition X = deletion

Substance g/m ²	90	100	250	300
Caliper μm (approx)	130	145	370	430
Opacity (ISO) %	88	91	-	-
Brightness (ISO) %C	96	96	96	96
Whiteness CIE D65	130	130	128	128
Smoothness (Bendtsen) TS ml/min	400 700	400 700	1700 1700	1700 1700
Rigidity (Taber) 15° MD mN m	0.30* 0.19*	0.37* 0.25*	8.1 4.9	12.0 6.5
Surface pH	7.4	7.4	7.4	7.4

* High Sensitivity

Environmental Information

Constituents of Paper

Fibre Source – 20% cotton, 80% virgin wood fibre from sawmill residues, forest thinnings and sustainable forest in Spain, Canada, Sweden, Germany, Brazil, USA and Portugal. **Mill Broke** - All broke is recycled and can be as high as 20% of the total fibre content. **Filler** – approx 14 grammes.

BLEACHING

Pulps used in the production of the above grade are Elemental Chlorine Free (ECF) giving a resultant AOX level of <0.5kg per 1,000 kg of pulp.

DISPOSAL OF WASTE BY-PRODUCTS

Soil conditioner and a small amount to landfill.

PAPER MILL EFFLUENT

Water used is suitably treated and in most cases returned to source in a better condition than when removed, in accordance with strict local laws. Water is reused many times.

ENERGY SOURCE

Gas, Oil, Electricity

TOTAL GROSS PRIMARY ENERGY (Paper Mill)

14 Giga Joules / 1,000 kg of paper/board.

This material is recyclable and bio-degradable.

This product meets ISO 9706 requirements for permanence of paper.

This Mill has ISO 9002 Accreditation. +

This Mill has ISO 14001 Accreditation. + X

Technical Capability

- Printing Process - Litho
- Screen Ruling - Up to 150
- Printing Inks - Conventional, UV and IR are preferred. High temperature resistant Fully Oxidizing ink for laser printing.
- Embossing - Yes
- Hot Foil Blocking - Yes – Laser grade foil available.
- Thermography - Yes
- Laser/Copier Guaranteed - Mono 90 and 100 g/m² (desktop only)
- Inkjet Guaranteed - Mono 90 and 100 g/m²
- Permanence of Paper - Yes, ISO 9706

Robert Horne Technical Department provides all information in good faith, but may not be held liable for loss or damage arising from action based on this leaflet.

Conqueror Laid High White (ECF)

Technical Information

4 = amendment : = addition 6 = deletion

Substance g/m ²	80	90	100	120	150	220	250	300
Caliper μm (approx)	115	130	145	175	220	320	355	450
Opacity (ISO) %	86	89	91	93	95	-	-	-
Brightness (ISO) %	85	85	85	85	85	85	85	85
Whiteness CIE D65	95	95	95	95	95	95	95	95
Smoothness (Bendtsen) TS ml/min WS	600 900	600 900	600 1000	600 1000	900 1200	1500 1700	1500 1700	1500 1700
Rigidity (Taber) 15° MD mN m CD	0.25* 0.17*	0.27* 0.23*	0.35* 0.30*	0.73* 0.46*	1.7 1.1	5.3 3.0	6.8 4.3	14.0 7.8
Surface pH	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3

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TOTAL GROSS PRIMARY ENERGY (Paper Mill)

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This material is recyclable and bio-degradable.

This product meets ISO 9706 requirements for permanence of paper.

This Mill has ISO 9002 Accreditation. : This Mill has ISO 14001 Accreditation. : 6

Technical Capability

Printing Process	- Litho
Screen Ruling	- Up to 150
Printing Inks	- Conventional, UV and IR are preferred. High temperature resistant Fully Oxidizing ink for laser printing.
Embossing	- Yes
Emulsion Sealing (board substances only)	- Yes
Hot Foil Blocking	- Yes – Laser grade foil available.
Creasing	- Pre-creasing is advisable e.g. 150 g/m ² and above , by using a creasing matrix. Due to the textured nature of this product, best results are achieved when folding parallel to the grain direction.
Laser/Copier Guaranteed	- Mono (desktop only)
Inkjet Guaranteed	- Mono
Permanence of Paper	- Yes, ISO 9706

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