CONQUEROR DIGITAL HIGH SPEED LASER WOVE

Common Attributes	Units	Test Method	90gsm
Wood Pulp & Bleach Type			ECF Cotton Linters, ECF Virgin Woodfree
Printing Process Suitability			Litho, Letterpress, Dry Offset (Toray)
Mono laser Guaranteed			Fully guaranteed for all office print technologies
Colour Laser Guaranteed			
Mono Ink Jet Guaranteed			
Colour Ink Jet Guaranteed			
Recommended p.H. of Fount Solution			5.5 ± 0.5
Surface p.H.		TAPPI 5290M	7.5
None Aging Credentials		ISO 9706	Yes
Environmental Label		ISO 14001	Yes
Quality Management		ISO 9002 : 2000	Yes
Moisture Content	%	ISO 287	< 5.0
Relative Humidity	%	TAPPI T502	25 - 35

High Speed Laser Wove

Caliper	µm	ISO 534	113
Whitest Shade Opacity	%	ISO 2471	86
Bendtsen Roughness	ml/min	ISO 2494	200
Stiffness M Direction C Direction	mN	ISO 2493 *L+W, TABER*	*150* *90*

High Speed Laser Laid

Reverse laid finish

Caliper	µm	ISO 534	131
Whitest Shade Opacity	%	ISO 2471	86
Bendtsen Roughness	ml/min	ISO 2494	(reverse side laid 900) print side 200
Stiffness M Direction C Direction	mN	ISO 2493 *L+W, TABER*	*150* *90*

These specifications are the property of Arjo Wiggins Fine Papers Ltd and may be changed without prior notice. They are target values only for use as a guide.

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Printing Hints Sheet

CONQUEROR DIGITAL *HIGH SPEED LASER WOVE*

Conqueror Digital *High Speed Laser Wove* is available across three white shades in either a cut size or folio 90gsm weight. This range has been specially designed for high output laser machines.

PRINTING GUIDELINES

1. SCREEN RULING

For standard process colour printing it is not usual to exceed 150 lpi however depending upon the image, screen rulings of 200 lpi can be achieved with careful ink control. Some dark four colour images may benefit from Under Colour Removal techniques and/or the use of 'Stochastic' (FM) screening technologies.

2. PRINTING INKS

Use laser suitable inks when subsequent laser processing is required, preferably of the conventional positive drying, quick setting, 'hard dry' inks type. Infra Red drying assistance can be used as can UV cured inks. *Avoid the use of press stable / stay fresh ink systems.*

3. PAPER HANDLING

Conqueror Digital *High Speed Laser Wove* is a dry paper for electrophotographic technologies and as such must be protected from the environment between all stages through production and delivery. The folio reams contain special moisture proof A4 boxes for repacking after guillotining. Do not pack in standard corrugated boxes without a protective barrier. Stretch wrap can be used to line the boxes and wrap the paper prior to packing.

4. VARNISHING & SEALING

Varnishings are not recommended for this grade. Spot seals may be used to help protect printed images however overall seals are not recommended as they may interfere with the laser or ink jet printing performance.

5. FINISHING

EMBOSSING (BLIND)

Embossings may be done with relative ease, however large or deep embosses should have their corners rounded off to help prevent creases forming from them. Laser machines and copiers do not care for embossed images, however shallow embosses are less likely to cause a problem. Embossed papers will be more prone to missfeeds and jams within office printing technologies.

DIE CUTTING

Die cutting can be performed without difficulty. Feeding problems can be experienced with die cut or perforated papers on office printing technologies.

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LASER CUTTING
Laser cutting can be performed easily however as with any paper there will be some scorching evident around the cut area. Feeding problems can be experienced with laser cut papers on office printing technologies.

HOT FOIL BLOCKING
The paper will accept foils easily however, foil prints are not a recommended for subsequent laser printing. If laser printing is essential ensure the foiled image is indented to below the paper surface and always trial the foil compatibility with the laser printer prior to committing to a long print run.

CREASING
Creasing is not required prior to folding.

DIE STAMPING
The paper will accept die stamping easily however it is not a recommended print technique for subsequent office printing as the relief image may lead to feeding difficulties. A shallow emboss is less likely to cause problems. If the die stamped work is intended for subsequent laser printing ensure the materials used are laser suitable and trial on the office equipment before committing to a large print run, whenever possible.

THERMOGRAPHY
The paper can be thermographically printed however it is not a recommended print process for subsequent laser printing. If laser printing is essential, ensure to check the suitability of the thermography powder for use with laser printers. Also note thermography can distort paper and so promote feeding problems with office printers.

FILM LAMINATING
After printing **Conqueror Digital** *High Speed Laser Wove* can be film laminated. Due to the texture some 'silvering' will be evident after lamination. To help reduce ‘silvering’ increase the laminating pressure and apply excess adhesive if possible. The increased amount of adhesive will probably extend the time required to reach a strong bond between paper and laminate surfaces. Be certain the printing inks are suitable for laminating and ensure they are thoroughly dry before laminating.

OFFICE PRINTING PERFORMANCE
Conqueror Digital *High Speed Laser Wove* has a Total Office Guarantee. It is guaranteed for pre-printing and subsequent use on all Mono and Colour Laser printers, Ink Jet printers and Photocopiers subject to the machine grammage and roughness limitations. It has been specifically engineered to work on fast volume laser printers (40 pages per minute and higher) for which the standard product is not guaranteed. Ensure laser suitable inks and materials are used for pre-printing.