

## SHIRO ECHO



## PRODUCT DESCRIPTION

SHIRO ECHO resets perceptions of 100% recycled paper not as a substitute product but as the desirable first choice for businesses with a strong corporate environmental policy. Ideal for sustainable printing and environmentally friendly packaging.

Shiro Echo is recyclable, biodegradable and FSC™ certified. It is produced with 100% green renewable energy and the unavoidable emissions generated are fully offset.



## TECHNICAL DATA

## THE FOLLOWING DATA REFER TO SHIRO ECHO WHITE

	METHOD		+/-	80 g/m <sup>2</sup>	90 g/m <sup>2</sup>	100 g/m <sup>2</sup>	120 g/m <sup>2</sup>	140 g/m <sup>2</sup>	160 g/m <sup>2</sup>	200 g/m <sup>2</sup>	250 g/m <sup>2</sup>	300 g/m <sup>2</sup>	350 g/m <sup>2</sup>
BASIC WEIGHT	ISO 536	g/m <sup>2</sup>	5%	80	90	100	120	140	160	200	250	300	350
THICKNESS	ISO 534	µm	5%	102	114	128	150	175	200	252	315	378	440
BULK	ISO 534	cm <sup>2</sup> /g	-	1,28	1,28	1,28	1,25	1,25	1,25	1,26	1,26	1,26	1,26
CIE WHITENESS	ISO 11475	%	4	96	96	96	96	96	96	96	96	96	96
ROUGHNESS (BENDTSEN)	ISO 8791-2	ml/min	50	240	240	240	240	240	240	-	-	-	-
			150	-	-	-	-	-	-	500	500	500	500
OPACITY	ISO 2471	%	-	>88	>89	>91	>92	>93	-	-	-	-	-
MOISTURE CONTENT	ISO 287	%	1,0	5,5	5,5	5,5	6,0	6,0	6,0	6,5	6,5	6,5	6,5

## THE FOLLOWING DATA REFER TO SHIRO ECHO BRIGHT WHITE

	METHOD		+/-	90 g/m <sup>2</sup>	120 g/m <sup>2</sup>	140 g/m <sup>2</sup>	160 g/m <sup>2</sup>	200 g/m <sup>2</sup>	250 g/m <sup>2</sup>	300 g/m <sup>2</sup>	350 g/m <sup>2</sup>
BASIC WEIGHT	ISO 536	g/m <sup>2</sup>	5%	90	120	140	160	200	250	300	350
THICKNESS	ISO 534	µm	5%	114	150	175	200	252	315	378	440
BULK	ISO 534	cm <sup>2</sup> /g	-	1,27	1,25	1,25	1,25	1,26	1,26	1,26	1,26
CIE WHITENESS	ISO 11475	%	4	134	134	134	134	134	134	134	134
ROUGHNESS (BENDTSEN)	ISO 8791-2	ml/min	50	240	240	240	240	-	-	-	-
			100	-	-	-	-	500	500	500	500
OPACITY	ISO 2471	%	-	>89	>92	>93	-	-	-	-	-
MOISTURE CONTENT	ISO 287	%	1,0	5,5	6,0	6,0	6,0	6,5	6,5	6,5	6,5

## THE FOLLOWING DATA REFER TO SHIRO ECHO RAW SAND AND RAW GREY

	METHOD		+/-	120 g/m <sup>2</sup>	200 g/m <sup>2</sup>	250 g/m <sup>2</sup>	350 g/m <sup>2</sup>
BASIC WEIGHT	ISO 536	g/m <sup>2</sup>	5%	120	200	250	350
THICKNESS	ISO 534	µm	5%	156	256	325	458
BULK	ISO 534	cm <sup>2</sup> /g	-	1,30	1,28	1,30	1,31
ROUGHNESS (BENDTSEN)	ISO 8791-2	ml/min	150	500	700	-	-
			200	-	-	1000	1100
MOISTURE CONTENT	ISO 287	%	1,0	6,5	6,5	6,5	6,5

## THE FOLLOWING DATA REFER TO SHIRO ECHO RAW BLACK

	METHOD		+/-	120 g/m <sup>2</sup>	200 g/m <sup>2</sup>	250 g/m <sup>2</sup>	350 g/m <sup>2</sup>
BASIC WEIGHT	ISO 536	g/m <sup>2</sup>	5%	120	200	250	350
THICKNESS	ISO 534	µm	5%	160	260	330	463
BULK	ISO 534	cm <sup>2</sup> /g	-	1,33	1,30	1,32	1,32
ROUGHNESS (BENDTSEN)	ISO 8791-2	ml/min	150	500	700	-	-
			200	-	-	1000	1100
MOISTURE CONTENT	ISO 287	%	1,0	6,5	6,5	6,5	6,5

NB. At times slight differences may occur in paper shade and look as a result of the use of recycled materials.

Special makings are available upon request.



\* Refers to Raw Black only

## PRINTING AND FINISHING RECCOMENDATIONS

Due to its content and the nature of 100% recycled fibres, SHIRO ECHO can be characterized by the presence of dots and by slight variations in shade.

<b>INKS</b>	To ensure good drying, Shiro Echo should be printed with fresh or semi-fresh inks; for heavier graphic elements, we recommend to use oxidizing inks.
<b>BLANKETS</b>	For a good graphic impression, use compressible blankets.
<b>DRYING TIME</b>	Drying times may vary according to the type of processing. For heavier graphic elements and higher densities, sufficient powder should be applied.
<b>PRINTABILITY AND RUNNABILITY</b>	Every method of printing, embossing, punching, die cutting, creasing, laminating, UV varnishing and silk screen is possible.
<b>DIGITAL PRINTING</b>	Suitable for digital printing. Not suitable for HP Indigo printing unless specifically stated.
<b>NOTE</b>	<p>Due to its hygroscopic nature, paper can show curl issues if not conditioned properly. To avoid any issue, we recommend to store the paper closed in its original wrap inside the printing area for at least 24-48 hours. After this conditioning time, the wrapping can be open and the paper can be utilized.</p> <p>For particular processes we recommend to carry out proofing trials, if required Favini's technical department remains available for any support.</p>

> Please contact our technical department for further suggestions.

## MILL ACCREDITATION | Rossano Veneto VI - Italy

CORPORATE QUALITY MANAGEMENT STANDARD | UNI EN ISO 9001

ENVIRONMENTAL MANAGEMENT STANDARD | UNI EN ISO 14001

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT STANDARD | UNI EN ISO 45001

ECO-MANAGEMENT AND AUDIT SCHEME CE 1221/2009 | EMAS

We care about the environment: [www.favini.com/en/sustainability](http://www.favini.com/en/sustainability)