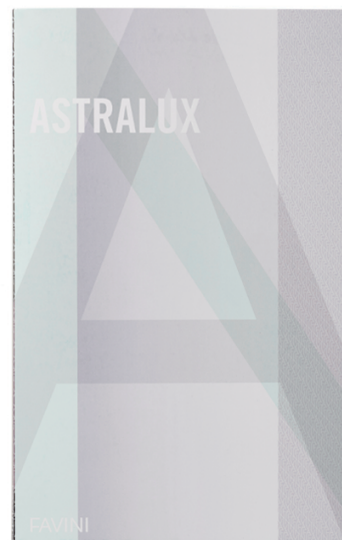


## ASTRALUX

### PRODUCT DESCRIPTION

Astralux is a brand that collects cast coated papers and boards. Superlative print performance, fast ink drying time, beautiful high white mirror gloss surface, excellent stiffness and bulk.

Astralux is available in a wide range of grammages.



### TECHNICAL DATA

#### THE FOLLOWING DATA REFERS TO ASTRALUX LABEL WET STRENGTH AND LABEL

	METHOD		+/-	80 g/m <sup>2</sup>	90 g/m <sup>2</sup>
BASIS WEIGHT	ISO 536	g/m <sup>2</sup>	5%	80	90
CALIPER	ISO 534	µm	5%	92	104
BULK	ISO 534	cm <sup>3</sup> /g	-	1,1	1,2
GLOSS 20°	ISO 2813	%	>	25	25
ISO BRIGHTNESS	ISO 2470	%	2	84	84
CIE WHITENESS	ISO 11475	%	7	111	111
WET TENSILE STRENGTH MD	ISO 3781	KN/m	>	0,9	0,9
COBB 120"	ISO 535	g/m <sup>2</sup>	2	22	22
MOISTURE CONTENT	ISO 287	%	1	5,5	5,5
L&W STIFFNESS	ISO 2493	mN MD/CD	>	100/50 (15°/10mm)	150/75 (15°/10mm)

## THE FOLLOWING DATA REFERS TO ASTRALUX (1/SIDE COATED)

	METHOD		+/-	170 g/m <sup>2</sup>	200 g/m <sup>2</sup>	215 g/m <sup>2</sup>	250 g/m <sup>2</sup>	275 g/m <sup>2</sup>	300 g/m <sup>2</sup>	350 g/m <sup>2</sup>
BASIS WEIGHT	ISO 536	g/m <sup>2</sup>	5%	170	200	215	250	275	300	350
CALIPER	ISO 534	µm	5%	207	252	270	315	355	387	450
BULK	ISO 534	cm <sup>3</sup> /g	-	1,2	1,3	1,3	1,3	1,3	1,3	1,3
GLOSS 20°	ISO 2813	%	>	45	45	45	45	45	45	45
ISO BRIGHTNESS	ISO 2470	%	2	84	84	84	84	84	84	84
CIE WHITENESS	ISO 11475	%	7	111	111	111	111	111	111	111
MOISTURE CONTENT	ISO 287	%	1	5,5	5,5	5,5	5,5	5,5	5,5	5,5
L&W STIFFNESS	ISO 2493	mN MD/CD	>	50/25 (15°/15mm)	70/35 (15°/50mm)	90/45 (15°/50mm)	140/70 (15°/50mm)	180/90 (15°/50mm)	240/120 (15°/50mm)	400/200 (15°/50mm)

## THE FOLLOWING DATA REFERS TO ASTRALUX (2/SIDE COATED)

	METHOD		+/-	250 g/m <sup>2</sup>	300 g/m <sup>2</sup>	350 g/m <sup>2</sup>
BASIS WEIGHT	ISO 536	g/m <sup>2</sup>	5%	250	300	350
CALIPER	ISO 534	µm	5%	255	324	378
BULK	ISO 534	cm <sup>3</sup> /g	-	1,0	1,1	1,1
GLOSS 20°	ISO 2813	%	>	45	45	45
ISO BRIGHTNESS	ISO 2470	%	2	84	84	84
CIE WHITENESS	ISO 11475	%	7	111	111	111
MOISTURE CONTENT	ISO 287	%	1	5,5	5,5	5,5
L&W STIFFNESS	ISO 2493	mN MD/CD	>	120/60 (15°/50mm)	220/110 (15°/50mm)	350/175 (15°/50mm)

Special makings are available upon request.



The mark of responsible forestry

## PRINTING AND FINISHING RECCOMENDATIONS

<b>PRINTING JOB PREPARATION</b>	Astralux is produced to be dimensionally stable at 50% RH/21-23 °C. Care should be taken to avoid extremes of humidity and temperature, in the print room. Keep in mili wrappers for as long as possible and protect from extremes of hot and cold.
<b>OFFSET LITHO</b>	This is the most popular process for the printing of Astralux. In addition to giving you excellent print quality, Astralux runs cleanly on press. In our experience best results are obtained by using: minimum quantity of ink, minimum printing pressure, minimum dampening solution and transparent inks so that the gloss of the Astralux surface is preserved. Dampening solution is advisable to keep the PH buffered and not to go below 5. It is recommended to use isopropyl alcohol in the standard quantity.
<b>GRAVURE AND FLEXOGRAPHY</b>	These methods of printing rely on surface smoothness, which is vital if good printing quality is to be achieved. Astralux's ultra smooth surface will give you superb results. Flexography is especially popular for printing self-adhesive labels.
<b>LETTERPRESS</b>	Used extensively for the printing self-adhesive constructions, the compressibility inherent in Astralux makes it ideally suited to the letterpress process. Keep cylinder pressures light especially when printing the reverse side.
<b>SCREEN-PRINTING</b>	Astralux's polished surface offers an ideai platform for silkscreen printing.
<b>INKS</b>	Inks normally used for coated papers can also be used for Astralux thanks to its microporous absorbant surface.
<b>MATT INKS</b>	These are inks, which by obstructing the passage of light inhibit the surface gloss thereby achieving special effects. They can be used in all circumstances.
<b>METALLIC INKS</b>	These inks require certain precautions. These are inks that on Astralux enhance gloss and coverage since the metallic pigments of which they consist are evenly spread on the smooth surface.
<b>U.V. INKS</b>	Can be used on Astralux without any problems. These inks have a photo sensitive polymer as their base which, when exposed to Ultra Violet rays polymerizes and dried quickly.
<b>FOIL BLOCKING</b>	The surface smoothness makes Astralux very responsive to foil blocking and stamping.
<b>THERMOGRAPHY</b>	The heat generated during normai processing should have no adverse effects on Astralux so it makes an excellent choice for this conversion method.
<b>VARNISHING</b>	The glossy surface of Astralux does not require varnishing. Varnishing is performed in all those cases where the surface needs to be protected in preparation for subsequent applications. U.V. varnish should be selected with care so as to obtain the same performance both on the printed and unprinted areas. This is an increasingly popular varnishing system with Astralux, the final gloss effect will be produced by the varnish.
<b>FILM LAMINATION</b>	You'll get good results with all plastic films: cellulose acetate, polypropylene, PVC etc. This process produces high quality results. Before laminating the main precaution is to eliminate any drying powder during the printing process.
<b>GLUING</b>	Astralux doesn't need particular glues.
<b>EMBOSSING</b>	The surface of Astralux is flexible and extensible so go ahead and use the full range of embossing and die stamping techniques. The surface is resistant to cracking and dies varying depths can be used successfully.
<b>NOTE</b>	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.

> Please contact our technical department for further suggestions.

## MILL ACCREDITATION | Crusinallo VB - 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)