

# Product-Specifications

## for Glassine ECHO<sup>®</sup>

### General Information:

Glassine paper is a pure cellulose paper. The main raw material is pulp which comes from modern thinning and is subject to strict controls and requirements. This raw material is supplied on short ways to our mill in Ober-Schmitten. Using water and energy only, we convert the pulp to Glassine paper. Transparency and grease resistance are achieved by a special mechanical treatment. Glassine ECHO<sup>®</sup> does not contain any waste paper. According to recommendation XXXVI of BfR and the American FDA, most of our Glassine ECHO<sup>®</sup> qualities are approved for direct contact with fatty, dry and moistly foodstuffs. Furthermore Glassine ECHO<sup>®</sup> does comply with the European regulations for packaging materials. It is neutral to taste and smell and free of chlorine and acid. Glassine ECHO<sup>®</sup> has no closed, but a high dense surface what creates a good breathability. It is the most dense paper worldwide. Glassine ECHO<sup>®</sup> is not only recyclable, but also compostable.

We produce bleached, unbleached, opaque and coloured Glassine papers in substances of min. 25 g/m<sup>2</sup> up to 95 g/m<sup>2</sup> (some qualities up to 115 g/m<sup>2</sup>), plain or embossed (B-Linen, Silkworm or Spider Web). For these qualities we have two paper machines with a maximum trim of 1.500 mm and 1.700 mm.

We are able to prepare small bobines of 20 mm up to rolls in maximum width of 1.500 mm and 1.700 mm. Furthermore we prepare sheets in size of min. 100 x 100 mm – our normal sheet size is 700 x 1.000 mm.

Our prices depend on requested quality, quantity (per order / per anno), substance, roll widths or sheet sizes, special treatments during manufacturing process, etc.

Glatfelter Ober-Schmitten GmbH is certified according to DIN ISO 9001:2000, DIN ISO 14001:2004 and DIN ISO 22000:2005. Furthermore we have special certificates for various qualities, such as several postal certificates for our windowing Glassine ECHO<sup>®</sup> WIN.

Our product quality "ECHObag" is also available as „FSC<sup>®</sup> Mix“ or “70% PEFC<sup>®</sup>”. Certified products are especially labelled.

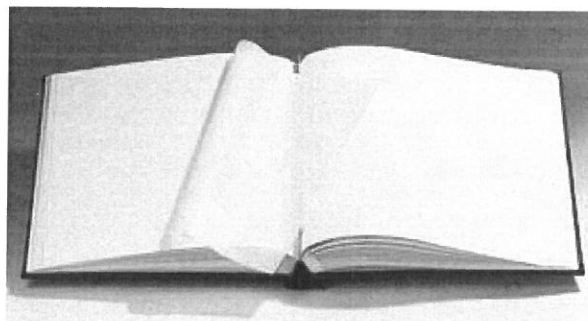
# ECHO<sup>®</sup> Standard

## bleached glazed Glassine

pulp 100% bleached (ECF/TCF)	standards	tolerances
substance	ISO 536	± 6 %
thickness	ISO 534	± 6 %
absolute residual moisture content	ISO 287	6,0 ... 8,0 %
pH-value	ISO 6588	6,0 ... 8,0

standard substance g/m <sup>2</sup>	thickness µm	tensile strength lengthwise > = N/15mm ISO 1924
25	20	27
30	23	32
35	28	36
40	31	38
50	38	43
60	45	50
70	54	65
80	62	70
90	72	82

- Printability: suitable for flexo and gravure printing
- Reliability: Glassine ECHO<sup>®</sup> quality is approved according to regulations (EG) 1935/2004 and according to German regulation XXXVI as well as American FDA and Italian Decredo Ministrare 21 marzo 1973.
- Research report: existing research report confirming compostability of Glassine ECHO<sup>®</sup>.
- Kosher Certificate: exists



B- Linen embossed, bleached, glazed Glassine,  
40 g/m<sup>2</sup> as interlayer for photo albums

# ECHO<sup>®</sup> Col

## Coloured glazed Glassine

pulp 100% bleached (ECF/TCF)	standards	tolerances
substance	ISO 536	± 6 %
thickness	ISO 534	± 6 %
absolute residual moisture content	ISO 287	6,0 ... 8,0 %
pH-value	ISO 6588	4,0 ... 8,0

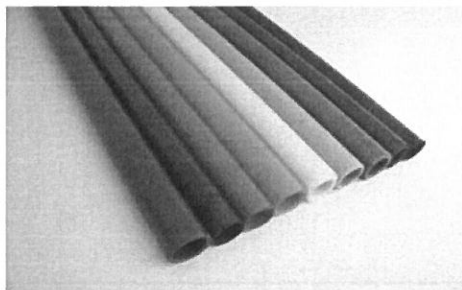
standard substance g/m <sup>2</sup>	thickness µm	tensile strength lengthwise > = N/15mm
ISO 536	ISO 534	ISO 1924
40	32	38

**REMARK:** Standard substance 40 g/m<sup>2</sup>, other substances on special request. Plain or embossed available (B-Linen, Silkworm, Spiderweb).

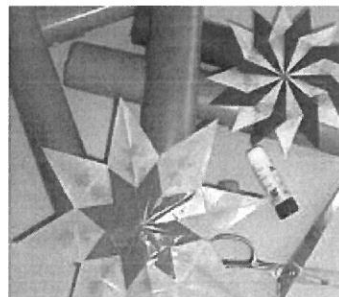
### the following standard colours are available:

LIGHT YELLOW 11961	DARK YELLOW 1971
ORANGE 1968	PINK 13966
LIGHT GREEN 1962	DARK GREEN 1963
BLUE 1964	PURPLE 1965
RED 11987	CHOCOLATE BROWN 11990
RED BROWN 1970	BLACK BROWN 32430
BROWN 8008	

- Special colours possible
- Printability: suitable for flexo and gravure printing
- Reliability: The following colours are approved for direct contact with fatty, dry and moistly foodstuffs according to German regulation XXXVI: Chocolate Brown 11990 and Black Brown 32500 (both also according to American FDA), Red 11987, Opaque, Lilac 5004, Light Green 1962, Light Green 9002, Light Yellow 11961, Pink 11966, Bordeaux Red 7003, Dark Blue 4007, Red Brown 1970, Red Brown 8004 (Panettone). Furthermore Red Brown 8004 (Panettone) is also approved according to Italian Decredo Ministrare 21 marzo 1973. Coshier Certificate exists.
- Research report: existing research report confirming compostability of Glassine ECHO<sup>®</sup>.



Coloured Glassine paper for handicrafts and decoration



Example for handicrafts