

## Mellotex Smooth Ultra White (ECF)

### Technical Information

4 = amendment : = addition 6 = deletion

|   |            |            |            |            |              |              |              |              |             |  |  |
|---|------------|------------|------------|------------|--------------|--------------|--------------|--------------|-------------|--|--|
| Substance g/m <sup>2</sup>                    | 95         | 105        | 115        | 135        | 155          | 185          | 215          | 290          | 340         |  |  |
| Caliper μm (approx)                           | 100        | 110        | 122        | 143        | 163          | 197          | 229          | 309          | 362         |  |  |
| Opacity (ISO) %                               | 93         | 93.5       | 94         | 95         | 96           | 98           | -            | -            | -           |  |  |
| Brightness (ISO) %                            | 96         | 96         | 96         | 96         | 96           | 96           | 96           | 96           | 96          |  |  |
| Whiteness CIE D65                             | 154        | 154        | 154        | 154        | 154          | 154          | 154          | 154          | 154         |  |  |
| Smoothness (Bendtsen) TS<br>ml/min WS         | 45<br>50   | 45<br>50   | 45<br>50   | 45<br>50   | 45<br>50     | 45<br>50     | 45<br>50     | 45<br>50     | 45<br>50    |  |  |
| Rigidity (Taber) 15° MD<br>Stiffness Units CD | 3.0<br>2.0 | 4.5<br>2.7 | 5.3<br>3.6 | 8.0<br>6.6 | 13.0<br>11.4 | 23.5<br>17.0 | 31.7<br>20.2 | 70.5<br>42.7 | 116<br>69.2 |  |  |
| Surface pH                                    | 7.5        | 7.5        | 7.5        | 7.5        | 7.5          | 7.5          | 7.5          | 7.5          | 7.5         |  |  |

### Environmental Information

#### CONSTITUENTS OF PAPER

**Fibre Source** – Virgin wood fibre from sawmill residues, forest thinnings and sustainable forests in Spain, USA, Brazil, Chile and Portugal. **Mill Broke** – All broke is recycled and can be as high as 40% 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 < 0.5 kg per 1000 kg of pulp.

#### DISPOSAL OF WASTE BY-PRODUCTS

**Landfill adhering to strict local laws.** Only inert waste / materials that cannot be recycled. Solid waste ash used in production of breeze blocks.

#### PAPER MILL EFFLUENT

Water used is suitably treated prior to use. Effluent is discharged to sewer, in accordance with strict local laws.

#### ENERGY SOURCE

Coal, Gas

#### TOTAL GROSS PRIMARY ENERGY (Paper Mill)

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

This material is recyclable and bio-degradable. The Mill has ISO 14001 Accreditation. The Mill has ISO 9001-2000 Accreditation. 4

This product complies with ISO9706 Permanence of Paper . **This product complies with EN71 Part 3 Toy Safety Regulations :**

### Technical Capability

|  |   |   |
|--|---|---|
| <b>Printing Process</b>                            | - | Litho and Screen.   |
| <b>Screen Ruling</b>                               | - | 150 plus – Undercolour removal is recommended.  |
| <b>Printing Inks</b>                               | - | Most Conventional, UV and IR are suitable but Press Open inks should be avoided. High temperature resistant Fully Oxidizing ink for laser printing.   |
| <b>Embossing</b>                                   | - | Yes   |
| <b>Varnishing</b><br>(board substances only)       | - | Machine or UV silk screen varnishing are both possible, provided it is carried out on top of emulsion sealing. For high gloss results it will be necessary to matt UV varnish on top of emulsion sealer before gloss UV varnishing. Good results have been obtained by spot varnishing on solids or dense tones by either method.<br>Any varnish applied directly to unprinted areas of the sheet may cause variations in gloss levels. |
| <b>Emulsion Sealing</b><br>(board substances only) | - | Yes   |
| <b>Hot Foil Blocking</b>                           | - | Yes – Laser grade foil available. 4   |
| <b>Film Laminating</b>                             | - | Yes   |
| <b>Thermography</b>                                | - | Yes   |
| <b>Laser/Copier Guaranteed</b>                     | - | Mono and colour up to 160 g/m <sup>2</sup>  |
| <b>Inkjet Guaranteed</b>                           | - | Mono and colour up to 105 g/m <sup>2</sup> 6  |
| <b>Creasing</b>                                    | - | If folding material above 135 g/m <sup>2</sup> or through a solid or dense tone pre-creasing is advisable e.g Channel Matrix and a rounded 2-point rule or similar. 4   |

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