



### Professional Papers selected by IBM

|                     |       |                          |
|---------------------|-------|--------------------------|
| INTERNATIONAL PAPER | VDL01 | Saillat mill, France     |
|                     | PDU02 | Maresquel Mill, France   |
|                     | NZL03 | Kwidzyn Mill, Poland     |
|                     | LQY04 | Invereuri Mill, Scotland |
|                     | VYH07 | Svetogorsk Mill, Russia  |

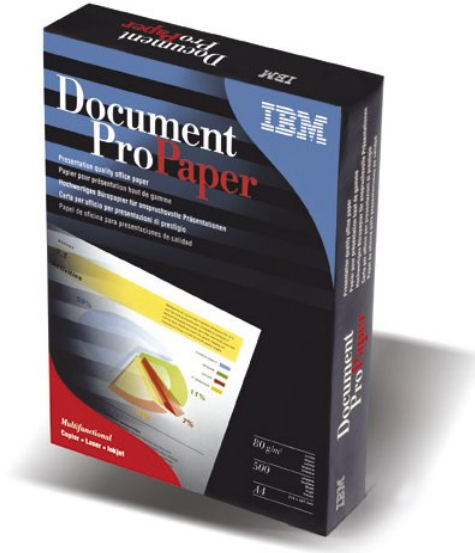
## MILL CODES

Every IBM Paper product has a Mill code printed on the wrapper.

This Mill code is positioned on the left side besides the EAN code on the bottom flap.

It can be used to track the origin of production in case of any product claims or questions regarding specific batches.

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**IBM DOCUMENT PRO PAPER - product specification sheet**

update : January 2005

|  | VDL01   | NZL03        | LQY04                  |
|--|---|--------------|------------------------|
| <b>BASIS WEIGHT (ISO 536)</b><br>g/m <sup>2</sup>  | Target 80<br>Tolerance ± 2                      | 80<br>± 2    | 80<br>± 2              |
| <b>THICKNESS (ISO 534)</b><br>µm                   | Target 108<br>Tolerance ± 2                     | 105<br>± 3   | 103<br>± 2             |
| <b>WHITENESS CIE (ISO 11475)</b><br>Elrepho        | Target 166<br>Tolerance ± 2                     | 166<br>± 3   | 166<br>± 2             |
| <b>BRIGHTNESS D65 (ISO 2470)</b><br>% - Elrepho    | Target 93<br>Tolerance ± 1                      |              | 94<br>± 1              |
| <b>ROUGHNESS (ISO 8791/2)</b><br>ml/min - Bendtsen | Target 240<br>Tolerance ± 40                    | 170<br>± 60  | 250<br>± 40            |
| <b>AIR PERMEABILITY (ISO 5636/3)</b><br>ml/min     | Maximum<br>Tolerance                            |              |                        |
| <b>OPACITY (ISO 2471)</b><br>%                     | Target 92<br>Tolerance ± 2                      | 92<br>± 1    | 92<br>± 1              |
| <b>STIFFNESS (ISO 2493)</b><br>mN (L&W)            | CD / MD Target 60 / 160<br>Tolerance ± 5 / ± 10 |              | 56 / 115<br>± 5 / ± 10 |
| <b>MOISTURE (ISO 287)</b><br>%                     | Target 4.5<br>Tolerance ± 0.3                   | 4.4<br>± 0.9 | 5<br>± 0.5             |

|                         |                      |                        |
|-------------------------|----------------------|------------------------|
| <b>RANGE AVAILABLE:</b> | 80 g/m <sup>2</sup>  | - A4 / A4-4 holes / A3 |
|                         | 90 g/m <sup>2</sup>  | - A4                   |
|                         | 100 g/m <sup>2</sup> | - A4                   |

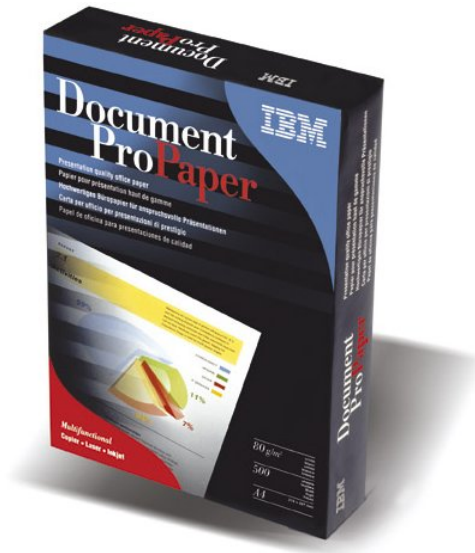
ISO 9002 : Quality Control / Contrôle Qualité

ISO 14001 : Environmental Protection / Protection de l'Environnement

ISO 9706 : Aging Resistance / Résistance au Vieillissement



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VDL01

|  |                |            |
|--|----------------|------------|
| <b>BASIS WEIGHT (ISO 536)</b><br>g/m <sup>2</sup>  | Target         | 90         |
|  | Tolerance      | ± 3        |
| <b>THICKNESS (ISO 534)</b><br>µm                   | Target         | 112        |
|  | Tolerance      | ± 3        |
| <b>WHITENESS CIE (ISO 11475)</b><br>Elrepho        | Target         | 166        |
|  | Tolerance      | ± 2        |
| <b>BRIGHTNESS D65 (ISO 2470)</b><br>% - Elrepho    | Target         | 93         |
|  | Tolerance      | ± 1        |
| <b>ROUGHNESS (ISO 8791/2)</b><br>ml/min - Bendtsen | Target         | 220        |
|  | Tolerance      | ± 40       |
| <b>AIR PERMEABILITY (ISO 5636/3)</b><br>ml/min     | Maximum        |            |
|  | Tolerance      |            |
| <b>OPACITY (ISO 2471)</b><br>%                     | Target         | 92         |
|  | Tolerance      | ± 1        |
| <b>STIFFNESS (ISO 2493)</b><br>mN (L&W)            | CD / MD Target | 75 / 135   |
|  | Tolerance      | ± 5 / ± 10 |
| <b>MOISTURE (ISO 287)</b><br>%                     | Target         | 4.5        |
|  | Tolerance      | ± 0.5      |

|                         |                      |                        |
|-------------------------|----------------------|------------------------|
| <b>RANGE AVAILABLE:</b> | 80 g/m <sup>2</sup>  | - A4 / A4-4 holes / A3 |
|                         | 90 g/m <sup>2</sup>  | - A4                   |
|                         | 100 g/m <sup>2</sup> | - A4                   |

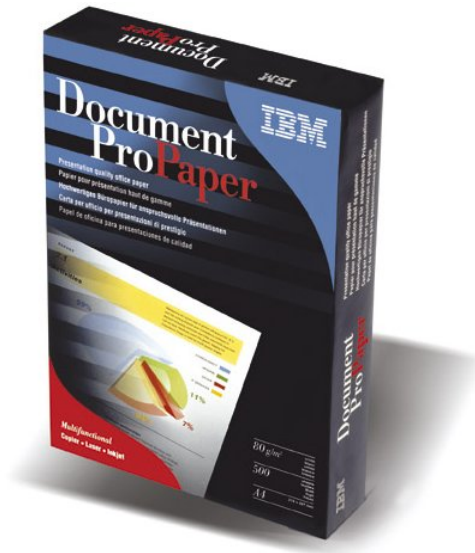
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|  |                |             |
|--|----------------|-------------|
| <b>BASIS WEIGHT (ISO 536)</b><br>g/m <sup>2</sup>  | Target         | 100         |
|  | Tolerance      | ± 3         |
| <b>THICKNESS (ISO 534)</b><br>µm                   | Target         | 128         |
|  | Tolerance      | ± 4         |
| <b>WHITENESS CIE (ISO 11475)</b><br>Elrepho        | Target         | 166         |
|  | Tolerance      | ± 2         |
| <b>BRIGHTNESS D65 (ISO 2470)</b><br>% - Elrepho    | Target         | 93          |
|  | Tolerance      | ± 1         |
| <b>ROUGHNESS (ISO 8791/2)</b><br>ml/min - Bendtsen | Target         | 240         |
|  | Tolerance      | ± 40        |
| <b>AIR PERMEABILITY (ISO 5636/3)</b><br>ml/min     | Maximum        |             |
|  | Tolerance      |             |
| <b>OPACITY (ISO 2471)</b><br>%                     | Target         | 94          |
|  | Tolerance      | ± 1         |
| <b>STIFFNESS (ISO 2493)</b><br>mN (L&W)            | CD / MD Target | 110 / 170   |
|  | Tolerance      | ± 10 / ± 20 |
| <b>MOISTURE (ISO 287)</b><br>%                     | Target         | 4.5         |
|  | Tolerance      | ± 0.5       |

|                         |                      |                        |
|-------------------------|----------------------|------------------------|
| <b>RANGE AVAILABLE:</b> | 80 g/m <sup>2</sup>  | - A4 / A4-4 holes / A3 |
|                         | 90 g/m <sup>2</sup>  | - A4                   |
|                         | 100 g/m <sup>2</sup> | - A4                   |

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