



Approval: Neverton Maciel Iores

Emission: Lutiano de Oliveira

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**Summary of Last Change: Compliance with internal specification.**

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**Product Description:** Paper produced with fibers obtained through the Kraft process, being formed by long fibers and pre-consumption fibers recovered from the factory process, which may contain small amount of short fiber.

| Property         | Unit                             | Method          | Basis Weights   |        |        |        |        |        |        |      |
|------------------|----------------------------------|-----------------|-----------------|--------|--------|--------|--------|--------|--------|------|
|                  |                                  |                 | 70              | 80     | 85     | 90     | 100    | 110    | 120    |      |
|                  |                                  |                 | Target          | Target | Target | Target | Target | Target | Target |      |
| Tensile Strength | MD                               | kN/m            | ISO 1924-3:2005 | 6,5    | 7,0    | 7,5    | 8,0    | 9,0    | 10,0   | 11,0 |
|                  | CD                               |                 |                 | 3,2    | 3,5    | 3,8    | 4,0    | 4,5    | 5,0    | 5,5  |
| Tensile Stretch  | MD                               | %               | ISO 1924-3:2005 | 1,8    | 1,8    | 1,8    | 1,8    | 1,8    | 1,8    | 1,8  |
|                  | CD                               |                 |                 | 5,5    | 5,5    | 5,5    | 5,5    | 5,5    | 5,5    | 5,5  |
| Tear             | MD                               | mN              | ISO 1974:2012   | 760    | 930    | 965    | 1000   | 1100   | 1386   | 1300 |
|                  | CD                               |                 |                 | 800    | 900    | 1000   | 1100   | 1200   | 1478   | 1450 |
| Burst            | kPa                              | ISO 2758:2001   | 278             | 295    | 323    | 350    | 400    | 450    | 500    |      |
| Moisture         | %                                | On-Line         | 7,5             | 7,5    | 7,5    | 7,5    | 7,5    | 7,5    | 7,5    |      |
| Gurley           | s/dL                             | ISO 5636-5:2003 | 15,0            | 15,0   | 15,0   | 15,0   | 15,0   | 15,0   | 15,0   |      |
| Cobb Test (60 s) | gH <sub>2</sub> O/m <sup>2</sup> | ISO 535:1991    | 34,0            | 34,0   | 34,0   | 34,0   | 34,0   | 34,0   | 34,0   |      |

. Lab. Conditions: 23 ± 1°C and 50 ± 2% R.H.;

. The Specifications are valid for PM 16 and 23.

**Note:** This document is valid for five (5) years after the date of the last modification / creation.

The shelf life of this product is fully guaranteed as long the storage conditions are observed (no exposure to rain or moisture).