

## BOPP WHITE FILM

White polypropylene film, biaxially oriented, heat-sealable on both sides.



### Application

- ☒ Recommended to use for packaging photosensitive products
- ☒ Lamination (especially with thin layer), with different materials
- ☒ For vertical VFFS and horizontal HFFS packaging machines
- ☒ High quality rotogravure and flexographic printing



### Main properties

- ☒ A wide range of sealing
- ☒ High thermal insulation properties
- ☒ Low level of transparency, good level of whiteness
- ☒ Light-resistant
- ☒ White base for color printing
- ☒ Produced with preservation of antistatic, anti-slip and antiblocking properties
- ☒ Stable coefficient of friction
- ☒ Good mechanical properties
- ☒ Allowed to direct contact with food

| Properties   |    | Unit   | Values  |             | Method                             |
|--|----|--------|---------|-------------|------------------------------------|
| Thickness +/- 5%   |    | µm     | 20      | 35          | -                                  |
| Density  |    | g/cm3  | 0,96    |             |                                    |
| Weight m <sup>2</sup> +/-5%                                |    | g/m2   | 19,2    | 33,6        |                                    |
| Yield +/-5%  |    | m2/kg  | 52,08   | 29,76       |                                    |
| Tensile strenght (not less)                                | MD | N/mm2  | 120     |             | ISO 527<br>ASTM D 882              |
|  | TD | N/mm2  |         |             |                                    |
| Elongation at break (not more)                             | MD | %      | 200     |             |                                    |
|  | TD | %      | 70      |             |                                    |
| Kinetic coefficient of friction (14 days after production) |    | -      | 0,35    | 0,1<br>-0,1 | ISO 8295<br>ASTM D 1894            |
| Thermal shrinkage (not more)                               | MD | %      | 4       |             | ISO 11501<br>ASTM D 1204           |
|  | TD | %      | 2       |             |                                    |
| Heat sealing strenght (not less)                           |    | N/15mm | 2,5     |             | ISO 527<br>ASTM F 88<br>ASTM D 882 |
| Heat sealing range   |    | °C     | 105-140 |             | -                                  |
| Haze (not more)  |    | %      | 50      | 35          | ISO 14782<br>ASTM D 1003           |
| Gloss (not less)   | T  | %      | 50      |             | ISO 2813<br>ASTM D 2457            |
| Treatment level (not less)                                 |    | mN/m   | 38      |             | ISO 8296<br>ASTM D 2578            |

MD - along  
 TD - across  
 T - treatment side

Note: All data included in the sheet come from the film manufacturer, MarDruk packaging company has not carried out any tests of the material.