

BOPP METALLIZED FILM

Metallized polypropylene film, biaxially oriented, heat sealable on non-metallized side.

Metalized film is produced from transparent film. This is done by covering a layer of film with a layer of aluminum in a process called a vacuum metallizing. In the last decade such products grew in popularity. All this is caused mainly by very good technical and environmental properties as well as savings of metal in the process of production and also by the versatility of possible applications.

Compared to the well-known aluminium foil, this film does not crack nor tear, and has just a little bit lower barrier properties. Moreover, its production is cheaper and requires about 130 times less use of aluminium. The most common film used for the production of the metalized one is a polypropylene and polyester film. Both of these films are in our offer.



Application

- ☒ High quality rotogravure and flexographic printing
- ☒ For covering bottles (fullstick) with opaque labels
- ☒ For vertical VFFS and horizontal HFFS packaging machines

Main properties

- ☒ Very good mechanical and barrier properties (low permeability of steam and oxygen)
- ☒ High gloss on the metallized side
- ☒ High protection against light
- ☒ Great whiteness
- ☒ Excellent adhesion on the side of aluminum
- ☒ Stable coefficient of friction



| Właściwość | | Unit | Values | | | | | | | | | Method | |
|--|----|--------|---------|-----|------|------|------|------|------|------|--------------------------|--------------------------------------|-------------------------|
| Thickness +/- 5% | | µm | 9 | 10 | 12 | 15 | 17 | 20 | 25 | 30 | 35 | 40 | - |
| Density | | g/cm3 | 0,91 | | | | | | | | | | |
| Weight m ² +/-5% | | g/m2 | 8,19 | 9,1 | 10,9 | 13,7 | 15,5 | 18,2 | 22,8 | 27,3 | 31,9 | 36,4 | |
| Yield +/-5% | | m2/kg | 122 | 110 | 91,7 | 73,3 | 64,6 | 55 | 44 | 36,6 | 31,4 | 27,5 | |
| Tensile strenght (not less) | MD | N/mm2 | 130 | | | | 140 | | | | ISO 527 ASTM D 882 | | |
| | TD | N/mm2 | 230 | | | | 250 | | | | | | |
| Elongation at break (not more) | MD | % | 220 | | | | 200 | | | | | | |
| | TD | % | 80 | | | | 70 | | | | | | |
| Kinetic coefficient of friction (14 days after production) | | - | 0,35 | | | | | | | | | 0,1 -0,1 | ISO 8295 ASTM D 1894 |
| Thermal shrinkage (not more) | MD | % | 5 | | | | 4 | | | | ISO 11501 ASTM D 1204 | | |
| | TD | % | 3 | | | | 2 | | | | | | |
| Heat sealing strenght (not less) | | N/15mm | 2 | 2,1 | 2,2 | | 2,5 | | 2,8 | | | ISO 527 ASTM F 88 ASTM D 882 | |
| Heat sealing range | | °C | 105-140 | | | | | | | | | - | |
| Density optyczna (not more) | | O.D. | 2 | | | | | | | | | - | |
| Treatment level (not less) | | mN/m | 38 | | | | | | | | | ISO 8296 ISO 15989 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.