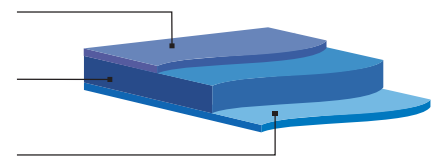


Description

BOPP film “tobacco” transparent, with high shrink properties, heat sealable with a low sealing threshold, with a very low coefficient of friction, without activation, for packing “hard” cardboard packs on high-speed machines

Untreated heat sealable layer with a very low coefficient of friction (F)
 Transparent layer
 Untreated heat sealable layer with a low heat sealing (NF)



| Properties | | Unit | Limit | Method | Value | | | |
|---|----|----------------|----------|------------------------------------|-----------------------------------|-------|-------|-------|
| Thickness | | µm | ±5% | ISO 4591, 4593 GOST 17035 | 20 | 23 | 25 | 30 |
| Density | | g/cm³ | ±10% | WATERFALL PRO | 0,91 | | | |
| Weight m² | | g/m² | ±5% | GOST 13199 | 18,20 | 20,93 | 22,75 | 27,30 |
| Tensile strength | MD | N/mm² (Мпа) | not less | ASTM D882 ISO 527 GOST 14236 | 140 | | | |
| | TD | | | | 260 | | | |
| Elongation at break | MD | % | not more | ASTM D1894 GOST 27492 | 160 | | | |
| | TD | | | | 70 | | | |
| Kinetic coefficient of friction | | F / F | - | ASTM D1894 GOST 27492 | 0,15 | | | |
| Shrinkage at 130°C, 5 мин | MD | % | ±2 | ASTM D1204 | 11 | | | |
| | TD | | | | 11 | | | |
| Heat sealing strength at 95°C, 1 bar, 1 sec. | | NF / F | N/15 mm | not less | ASTM F88/F88M, D882 ISO 527 | 2,5 | | |
| Minimal heat sealing temperature not less than 1H/15mm at 1 bar, sec. | | NF / F | °C | - | WATERFALL PRO | 80 | | |
| Haze | | - | % | not more | ASTM D1003 GOST R 8.829 | 3,0 | | |
| Gloss | | F | % | not less | ASTM D2457 | 85 | | |

MD – machine direction
 TD – transverse direction
 NF – non-functional side (with a low threshold of thermal welding)
 F – functional side (with very low coefficient of friction)

Main characteristics

- resistant to scratching and abrasion
- low stable coefficient of friction asymmetric, including over heated surfaces
- high hardness
- high transparent
- high gloss

Application

- for wrapping “hard” paper packs of cigarettes, cigarette blocks, tea, marshmallows, sweets, etc.
- for film tightening of packs due to shrinkable properties of the film
- for tightening packs small and medium sizes

For packing

- on the high-speed HFFS packaging machines with a thertotunnel
- on the high-speed HFFS packaging machines without a thertotunnel where the film shrink is able due to heating of the weld seal
- with hot (heat sealing) seal formed at lower heat sealing temperatures (from 90°C)
- “hard” paper packs

Storage

- films should be stored on the pallets in a closed dry place and should not be exposed to direct sunlight, at a safe distance of not less than 1 m from heating devices or anything that can cause damage the package
- the film should be kept in workplace not less than 48 hours before being used
- guaranteed storage period – 6 months from production date

Reeling

- maximum roll diameter 500 mm
- film width in a roll from 90 to 450 mm
- diameter of paper cores (inside) 76 mm

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