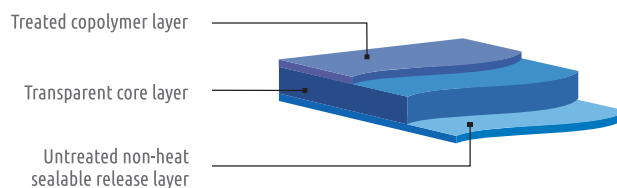


## Description

**Transparent non-heat sealable BOPP film with release effect for flexible packaging with glue border of cold adhesion**



Properties		Unit	Limit	Method	Value				
Thickness		μm	±5%	WATERFALL PRO	15	20	25	30	35
Density		g/cm <sup>3</sup>	±10%		0,91				
Weight m <sup>2</sup>		g/m <sup>2</sup>	±5%		13,65	18,20	22,75	27,30	31,85
Tensile strength	MD	N/mm <sup>2</sup> (MPa)	not less	ASTM D882 ISO 527 GOST 14236	150		140		
	TD				250				
Elongation at break	MD	%	not more		200				
	TD				70				
Kinetic coefficient of friction	untreated side/ untreated side	-	±0,10		ASTM D1894 ISO 8295 GOST 27492	0,25			
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204 ISO 11501 GOST 18616	5		4		
	TD			2		2			
Heat sealing strength at 130°C, 1 bar, 1 sec	-	N/15 mm	not less	ASTM F88/F88M D882 ISO 527 GOST 27319	non-heat sealable				
Heat sealing temperature	-	°C	-	WATERFALL PRO	non-heat sealable				
Haze	-	%	not more	ASTM D1003 ISO 14782 GOST 15875	2,0				
Gloss	treated side	%	not less	ASTM D2457 ISO 2813	85				
Surface tension	treated side	mN/n (dyn/cm)	not less	ASTM D2578 ISO 8296	38				

MD – Machine Direction; TD – Transverse Direction  
Kinetic coefficient of friction in 15 days from the date of production

### Main characteristics

- high release characteristics
- low coefficient of friction
- high transparent

### Application

- for reopening/reclosing of package
- on the HFFS packaging machines
- with cold (using cold glue) seal formation
- with cold glue for one-and reopening
- [For lamination](#)
- with other films and materials
- with method of the solvent or nonsolvent (extrusion) lamination
- [For printing](#)
- high-quality rotogravure and flexographic print
- with the use of solvent paint

### 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.

### Treatment

The guaranteed period for maintaining the minimum permissible level of surface tension on the activated film surface from the date of manufacture, subject to proper storage conditions, is:

- for all film types (except metallized) – 6 months;
- for metallized film – 3 months.

In the interests of minimizing the deterioration of surface dressing level, it is recommended to store the film at a temperature of no higher than 30°C and use it in a short time.

### Recycling

In the process of printing and lamination it is recommended to perform corona treatment.

### Reeling

- Maximum roll diameter: 800 mm
- Film width in a roll from 290 to 2000 mm
- Diameter of paper cores (inside): 76, 152 mm

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