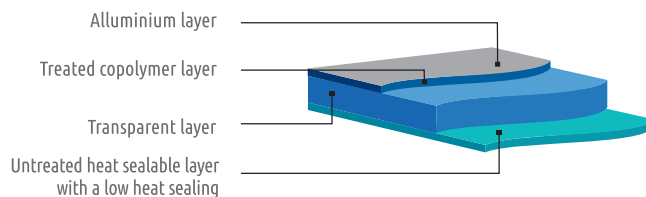


## Description

**BOPP film metallized on a transparent base, heat sealable with a low sealing threshold, with activation on one side, with a long activation retention period, for printing, lamination and packaging, in cases requiring lower heat sealing temperatures**



Properties		Unit	Limit	Method	Value						
Thickness*		µm	±5%	ISO 4591, 4593 GOST 17035	15	20	25	30	35	40	
Density		g/cm <sup>3</sup>	±10%	WATERFALL PRO	0,91						
Weight m <sup>2</sup> *		g/m <sup>2</sup>	±5%	GOST 13199	13,65	18,20	22,75	27,30	31,85	36,40	
Tensile strength*	MD	N/mm <sup>2</sup> (Мпа)	not less	ASTM D882 ISO 527 GOST 14236	130						
	TD				230						
Elongation at break*	MD	%	not more	ASTM D1894 GOST 27492	220						
	TD				80						
Kinetic coefficient of friction		UT / UT	-	ASTM D1894 GOST 27492	0,3						
Shrinkage at 120°C, 5 мин*	MD	%	not more	ASTM D1204	5					4	
	TD				3					2	
Heat sealing strength at 95°C, 1 бар, 1 sec.*		UT / UT	N/15 mm	not less	ASTM F88/F88M, D882 ISO 527	2,2					
Minimal heat sealing temperature not less than 1H/15mm at 1 бар, sec.*		UT / UT	°C	-	WATERFALL PRO	80					
Surface tension		T	mN/m (dyn/cm)	not less	ASTM D2578 ISO 8296	36					
Optical density		-	OD	not less	WATERFALL PRO	1,8					
WVTR-water vapour transmission rate at 38°C, 90% rel. humidity, 24 h		g/m <sup>2</sup> /24 h	not more	ASTM F1249	1,0						
OTR-oxygen transmission rate at 23°C, 0% rel. humidity, 24 h		cm <sup>3</sup> /m <sup>2</sup> /24 h	not more	ASTM D3985	100						
MD – machine direction TD – transverse direction		T – treated side UT – untreated side		* indicators are measured on BOPP film – base for metallization							

### Main characteristics

- long-term activation
- low heat sealing temperature
- excellent adhesion of aluminium cover
- excellent optical properties
- excellent barrier properties
- stable regular coefficient of friction

### Application

- for improvement of package's barrier properties
- for decreasing temperature of heat sealing
- for increasing speed of heat sealing
- [For packing](#)
- on the high-speed HFFS and VFFS packaging machines
- with hot (heat sealing) seal formed at lower heat sealing temperatures (from 80°C)
- Flow-Pack
- [For lamination](#)
- with other films and materials in duplex, triplex
- with method of the solvent or nonsolvent (extrusion) lamination
- [For printing](#)
- high-quality rotogravure and flexographic print
- using 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 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

- it's recommended to use primer when printing on metallized surface

### 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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