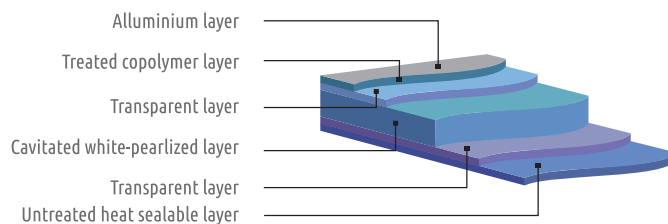


## Description

**BOPP film metallized white-pearlescent filled base, heat sealable with a medium seal threshold, with activation on one side, with a long activation retention period, for printing, lamination and packaging**



Properties		Unit	Limit	Method	Value		
Thickness*		µm	±5%	ISO 4591, 4593 GOST 17035	30	35	40
Density		g/cm <sup>3</sup>	±10%	WATERFALL PRO	0,70		
Weight m <sup>2</sup> *		g/m <sup>2</sup>	±5%	GOST 13199	21,00	24,50	28,00
Tensile strength*	MD	N/mm <sup>2</sup> (Mpa)	not less	ASTM D882 ISO 527 GOST 14236	70		
	TD				140		
Elongation at break*	MD	%	not more		200		
	TD				60		
Kinetic coefficient of friction**		UT / UT	-	+0,10 -0,15	ASTM D1894 GOST 27492		
Shrinkage at 120°C, 5 мин*	MD	%	not more	ASTM D1204	4		
	TD				2		
Heat sealing strength at 115°C, 1 bar, 1 sec.*		UT / UT	N/15 mm	not less	ASTM F88/F88M, D882 ISO 527		
Minimal heat sealing temperature not less than 1H/15mm at 1 bar, sec.*		UT / UT	°C	-	WATERFALL PRO		
Surface tension		T	mN/m (dyn/cm)	not less	ASTM D2578 ISO 8296		
Optical density		-	OD	not less	WATERFALL PRO		
WVTR-water vapour transmission rate at 38°C, 90% rel. humidity, 24 h		g/m <sup>2</sup> /24 h		not more	ASTM F1249		
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		

MD – machine direction  
TD – transverse direction

T – treated side  
UT – untreated side

\* indicators are measured on BOPP film – base for metallization  
\*\* these are typical values, guaranteed for the untreated side only. When processing on both sides, this value is not regulated

## Main characteristics

- long-term activation
- activation on both sides on demand
- excellent adhesion of aluminium cover
- excellent optical properties
- excellent barrier properties
- high coefficient of friction
- lowered density and high yield

## Application

- for packaging of products which require high barrier properties and protection from UV-light: ice-cream, chocolate and etc.
- for extension of products storage period

### For packing

- on the high-speed HFFS and VFFS packaging machines
- with hot (heat sealing) and cold (using cold glue) seal formation
- 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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