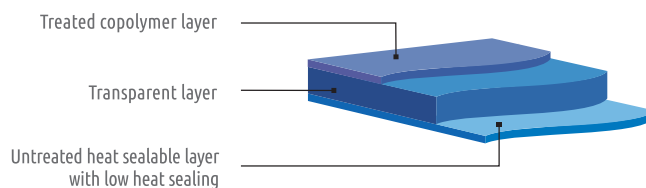


## Description

**BOPP film transparent,  
heat sealable with a low sealing threshold,  
with activation on one side,  
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	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	18,20	22,75	27,30	31,85	36,40	
Tensile strength	MD	N/mm <sup>2</sup> (Mpa)	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	-	±0,10	ASTM D1894 GOST 27492	0,25				
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204	4				
	TD				2				
Heat sealing strength at 95°C, 1 bar, 1 sec.	UT / UT	N/15 mm	not less	ASTM F88/F88M, D882 ISO 527	2,3				
at 125°C, 1 bar, 1 sec.	T / T								
Minimal heat sealing tem- perature not less than 1N/15mm at 1 bar, 1 sec.	UT / UT	°C	-	WATERFALL PRO	80				
	T / T				115				
Haze	-	%	not more	ASTM D1003 GOST R 8.829	3,0				
Gloss	T	%	not less	ASTM D2457	85				
Surface tension	T	mN/m (dyn/cm)	not less	ASTM D2578 ISO 8296	38				

MD – machine direction  
TD – transverse direction  
T – treated side  
UT – untreated side

### Main characteristics

- low heat sealing temperature
- low coefficient of friction
- good optical properties

### Application

- to reduce the temperature of heat sealing
- to increase the 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
  - self using in decorative packaging
- [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
  - method of direct and reverse printing

### 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 6 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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