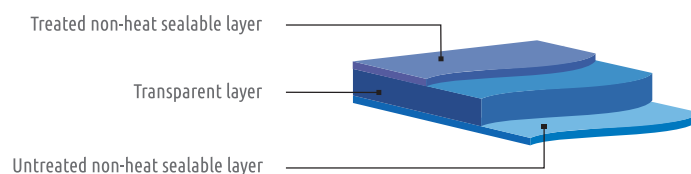


## Description

**BOPP film transparent,  
non-heat sealable,  
with activation on one side,  
for printing, lamination and  
decorative packaging**



Properties		Unit	Limit	Method	Value						
Thickness		μm	±5%	ISO 4591, 4593 GOST 17035	20	23	25	28	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	20,93	22,75	25,48	27,30	31,85	36,40
Tensile strength	MD	N/mm <sup>2</sup> (Mpa)	not less	ASTM D882 ISO 527 GOST 14236	140						
	TD				250						
Elongation at break	MD	%	not more		200						
	TD				70						
Kinetic coefficient of friction*		UT / UT	-	ASTM D1894 GOST 27492	0,4						
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204	4						
	TD				2						
Heat sealing strength		-	N/15 mm	ASTM F88/F88M, D882 ISO 527	non-heat sealable						
Minimal heat sealing temperature		-	°C	WATERFALL PRO	non-heat sealable						
Haze		-	%	ASTM D1003 GOST R 8.829	2,0						
Gloss		T	%	ASTM D2457	85						
Surface tension**		T	mN/m (dyn/cm)	ASTM D2578 ISO 8296	38						
MD – machine direction TD – transverse direction		T – treated side UT – untreated side		* these are typical values, guaranteed for the untreated side only. When processing on both sides, this value is not regulated ** with double-side treatment (if ordered), the activation of the second side (usually the inside of the roll) is not less than 36 mN/m							

### Main characteristics

- high coefficient of friction
- high transparency and gloss
- used as a face film of a package with high gloss

### Application

- for exempting heat sealability on the package front side
- for manual and machine product wrapping (flowers, gifts, office, textile products etc.)

#### For packing

- for exempting heat sealability

#### For lamination

- with other films and materials (if necessary)
- 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 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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