

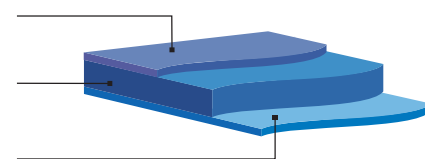
Description

**BOPP film transparent,
with antifog effect (anti-fog),
heat sealable with an average sealing
threshold, with double-sided activation,
for printing and packaging products
in cases requiring no fogging of the packaging
material**

Treated heat sealable layer (NF)
for printing

Transparent core layer

Treated heat sealable layer
with anti-fog properties (F)



Properties		Unit	Limit	Method	Value				
Thickness		μm	±5%	ISO 4591, 4593 GOST 17035	20	25	30	35	40
Density		g/cm ³	±10%	WATERFALL PRO	0,91				
Weight m ²		g/m ²	±5%	GOST 13199	18,20	22,75	27,30	31,85	36,40
Tensile strength	MD	N/mm ² (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	NF / NF	-	±0,10	ASTM D1894 GOST 27492	0,25				
	F / F								
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204	5		4		
	TD				2		2		
Heat sealing strength at 130°C, 1 bar, 1 sec		NF / F	N/15 mm	not less	ASTM F88/F88M, D882 ISO 527	2,3			
Minimal heat sealing temperature not less than 1H / 15mm at 1 bar, sec.		NF / F	°C	-	WATERFALL PRO	120			
Haze		-	%	not more	ASTM D1003 GOST R 8.829	3,2			
Gloss		NF	%	not less	ASTM D2457	85			
Surface tension		NF	mN/m (dyn/cm)	not less	ASTM D2578 ISO 8296	38			
Anti-fogging level in cold fog conditions (anti-fog properties)		F	point	not less	WATERFALL PRO	4			

MD – machine direction
TD – transverse direction

NF – non-functional side (for printing)
F – functional side (with antifog property)

Main characteristics

- good anti-fog properties from + 4°C and above
- low coefficient of friction
- one side has anti-fog properties
- the other side is for printing

Application

- for packaging products which require no fogging, contributing to the preservation of the basic properties of perishable products: fresh vegetables, salads, fruits, hot food, semi-finished products of flour products (dough), etc.

For packing

- on the high-speed HFFS and VFFS packaging machines
- with hot (heat sealing) seal formation
- Flow-Pack

For lamination

- with other films and materials (the change in anti-fog properties after lamination was not studied)
- with method of the solvent lamination

For printing

- high-quality rotogravure and flexographic print
- with the use of solvent paint
- method of direct 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 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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