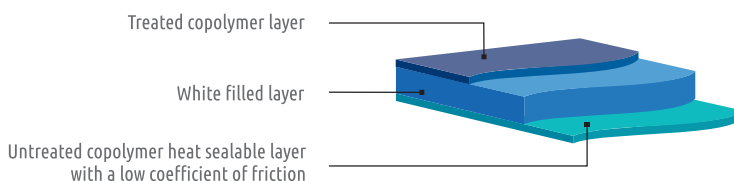


Description

White heat sealable BOPP film with a low coefficient of friction for printing, lamination and packaging



Properties	Unit	Limit	Method	Value				
Thickness	μm	±5%	WATERFALL PRO	15	20	25	30	35
Density	g/cm ³	±10%		0,96				
Weight m ²	g/m ²	±5%		14,40	19,20	24,00	28,80	33,60
Tensile strength	MD	N/mm ² (MPa)	not less	110		120		
	TD			210	220	230		
Elongation at break	MD	%	not more	200				
	TD			70				
Kinetic coefficient of friction	untreated side/ untreated side	-	±0,10	ASTM D1894 ISO 8295 GOST 27492				
Shrinkage at 120°C, 5 min	MD	%	not more	ASTM D1204 ISO 11501 GOST 18616				
	TD			4				
Heat sealing strength at 130°C, 1 bar, 1 sec*	untreated side/ untreated side	N/15 mm	not less	ASTM F88/F88M D882 ISO 527 GOST 27319				
	untreated side/ untreated side			2,5				
Heat sealing temperature*	untreated side/ untreated side	°C	-	WATERFALL PRO				
Optical transmission	-	%	not more	60	50	45	40	35
Gloss	untreated side	%	not less	ASTM D2457 ISO 2813				
Surface tension**	treated side	mN/n (dyn/cm)	not less	ASTM D2578 ISO 8296				

MD – Machine Direction; TD – Transverse Direction

* the typical values are indicated, guaranteed only for untreated side

** 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

With double-side processing – strength and range of welding are not applicable

Kinetic coefficient of friction in 15 days from the date of production

Main characteristics

- all white non-transparent appearance
- stable low coefficient of friction
- good UV light protection of packaged goods

Application

- for the production of flexible packaging for products which require protection from UV-light: ice cream, chocolate, flour, curd products, sweets and etc.
- for the production of cut-and-stack bottle labels in the original films form or in lamination

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
- 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:

- for all film types (except metallized) – 6 months;
- for metallized film – 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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