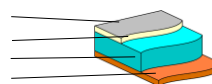


Aluminum layer with increased thickness
 Treated modified layer for high adhesion to aluminum
 Transparent oriented polypropylene core layer
 Teat sealable, non treated skin layer with standard coefficient of friction



DESCRIPTION:

*Metallized heatsealable BOPP film
 with low sealing threshold and standard coefficient of friction,
 with barrier properties, for printing and lamination*

Properties		Methods			Unit	HMPLB.M				
Thickness, ± 5%		BIAXPEN			mkm	18	20	30	35	40
Density *					g/cm ³	0,91				
Weight, ± 5%					g/m ²	16,38	18,20	27,30	31,85	36,40
Yield, ± 5%					m ² /kg	61,05	54,95	36,63	31,40	27,47
Tensile strength, not less	MD	GOST 14236	ISO 527	ASTM D882	N/mm ² , MPa	130	140			
	TD					230	250			
Elongation at break, not more	MD				%	220	200			
	TD					80	70			
Kinetic coefficient of friction	UT / UT	GOST 27492	ISO 8295	ASTM D 1894	---	0,3			+ 0.10 - 0.10	
Thermal shrinkage at 120°C, 5 min, not more	MD	GOST 18616	ISO 11501	ASTM D1204	%	5	4			
	TD					3	2			
Heat sealing strength at 130°C, 1bar, 1 sec, not less	UT/UT	GOST 27319	ISO 527	ASTM D 882, ASTM F 88	N/15mm	2,0	2,3			
Heat sealing range at 1bar, 1sec.*	UT/UT	BIAXPEN			°C	105 - 140				
Optical density, not less					---	2,3				
Treatment level, not less **	T	BIAXPEN	ISO 8296	ASTM D 2578	Dyne/cm, mN/m	36				
Water vapour transmission rate at 38°C, 90% rel.humidity, 24h, not more		BIAXPEN	---	ASTM F 1249	g/m ² /24h	1,0				
Oxygen transmission rate at 23°C, 24h, not more		BIAXPEN	---	ASTM D 3985	cm ³ /m ² /24h	50				

MD - machine, longitudinal direction;
 TD - transverse direction;

T - metallized side;
 UT - untreated, non metallized film side;

*Typical value;
 GOST - Russian Federation standards.

** Guaranteed shelf life of the activation of the metallized side is **30** days from the date of manufacture indicated on roll label.

MAIN PROPERTIES:

- More thick coating of aluminium is firmly bound to the film
- high barrier properties to oxygen and water vapor;
- low threshold for heat sealing, high adhesion of aluminum, good mechanical properties;
- permanent standard coefficient of friction;
- contains no migratory antiblock and slip additives;
- intended for contact with food;
- without coating or primer.

APPLICATION:

- High quality rotogravure and flexographic solvent based printing;
- for lamination with solvent based or solventless polyurethane adhesives;
- manufacture of flexible packaging for the food with long shelf life: cakes, sunflower seeds, candies, chips and the like;
- for vertical VFFS and horizontal HFFS packaging machines;
- for cold seal glue frame coating onto UT film side (if necessary).

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