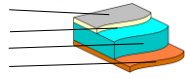


Aluminum layer
Treated modified copolymer layer for aluminum adhesion
Transparent oriented polypropylene core layer
Heat sealable non treated, skin layer with standard coefficient of friction



DESCRIPTION:

Metalized heat sealable BOPP film with a low sealing intention temperature and standard coefficient of friction for printing and lamination

Properties		Methods			Unit	HMPL.M							
Thickness, ± 5%		BIAXPLEN			mkm	15	18	20	25	30	35	40	
Density *					g/cm ³	0,91							
Weight, ± 5%					g/m ²	13,65	16,38	18,20	22,75	27,30	31,85	36,40	
Yield, ± 5%					m ² /kg	73,26	61,05	54,95	43,96	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						+ 0.15 - 0.15	
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	2,2	2,3	2,5	2,8			
Heat sealing range at 1bar, 1sec.*	UT/UT	BIAXPLEN			°C	105 - 140							
Optical density, not less					- - -	1,8							
Treatment level, not less **	T	BIAXPLEN	ISO 8296	ASTM D 2578	Dyne/cm, mN/m	36							
Water vapour transmission rate at 38°C, 90% rel.humidity, 24h, not more		BIAXPLEN	- - -	ASTM F 1249	g/m ² /24h	1,5							
Oxygen transmission rate at 23°C, 0% rel.humidity 24h, not more		BIAXPLEN	- - -	ASTM D 3985	cm ³ /m ² /24h	150							

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 15 days from the date of manufacture indicated on roll label.

MAIN PROPERTIES:

- Good adhesion of the aluminum layer;
- excellent optical and barrier properties of the metallized films;
- low threshold for welding, high adhesion of aluminum, good mechanical properties;
- stable standard coefficient of friction;
- contains slip-antiblock additives;
- intended for contact with food;
- without coatings and primers;
- UT side is allowed to accept activation inline on the printing press or laminator (if necessary).

APPLICATION:

- High quality rotogravure and flexographic solvent based printing;
- for lamination with solvent based or solventless polyurethane adhesives;
- manufacture of flexible packaging for food products;
- packaging for vertical VFFS and horizontal HFFS packaging machines;
- for production of fully wrapped labels for bottles;
- UT side can be coated by frame cold seal glue.

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