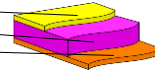


Non treated skin layer (OUT) with a low coefficient of friction and low heat sealing threshold
 Transparent oriented modified polypropylene
 Non treated skin layer (IN) with a bit higher coefficient of friction and low heat sealing threshold



DESCRIPTION:

Thermo shrinkable transparent BOPP film for general purposes with a wide heat sealing range and low coefficient of friction for "rigid" carton pack overwrapping on high speed machines.

Properties		Methods			Unit	TSHL					
Thickness, ± 5%		BIAXPEN			mkm	16	18	20			
Density *								g/cm ³	0,91		
Weight, ± 5%								g/m ²	14,56	16,38	18,2
Yield, ± 5%								m ² /kg	68,68	61,05	54,95
Tensile strength, not less	MD	GOST 14236	ISO 527	ASTM D882	N/mm ² , Mpa	150					
	TD					260					
Elongation at break, not more	MD							%	180		
	TD								65		
Kinetic coefficient of friction	IN / IN	GOST 27492	ISO 8295	ASTM D 1894	---	0,30		+ 0,05			
	OUT / OUT					0,25		-0,10			
Thermal shrinkage at 120°C, 5 min	MD	GOST 18616	ISO 11501	ASTM D1204	%	6,5 - 9,0					
	TD					6,5 - 9,0					
Heat Seal strength at 1bar, 1sec, 130°C, not less	IN / OUT	GOST 27319	ISO 527	ASTM D 882, ASTM F 88	N/15mm	2,5					
Haze, no more		GOST 15875	ISO 14782	ASTM D 1003	%	2,5					
Gloss at 45°, not less	OUT	BIAXPEN	ISO 2813	ASTM D 2457	%	85					
Heat sealing range at 1bar, 1sec.*	OUT/ OUT	BIAXPEN			°C	105 - 140					

MD - Machine, longitudinal direction of the film;
 TD - Transverse direction of the film.;

IN - internal film side of the reel;
 OUT- external film side of the reel;

* Typical value;
 GOST - Russian Federation standards.

MAIN PROPERTIES:

- Contains antistatic and slip-antilock additives;
- non symmetric coefficient of friction of the film for packs tight overwrapping;
- stable low coefficient of friction, including the heated surfaces;
- medium shrinkage film;
- excellent optical properties;
- good physical and mechanical properties and increased stiffness;
- intended for contact with food;
- without coating.

APPLICATION:

- Overwrapping of the "rigid" cardboard packs on the horizontal high speed machines;
- for tight carton packs overwrapping due to shrinkability of the film;
- wrapping cardboard packs of tea, zephyr, cigarette cardboard blocks, etc.;
- mainly for machines with heat tunnel;
- also for machines without a heat tunnel in which the shrinkage of the film occurs due to heating of the weld;
- for tight overwrapping of small and medium-sized carton packs;

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