

BOPP FILM

Bilaterally heat-sealable transparent polypropylene film, biaxially oriented.



Application

- ☒ High quality rotogravure and flexographic printing
- ☒ Lamination (especially with thin layer), with the same film or different materials
- ☒ Production of decorative packaging for flowers, gift wrap (thicker films e.g. 40 µm)
- ☒ For vertical VFFS and horizontal HFFS packaging machines
- ☒ Packaging confectionery
- ☒ Wrapping cardboard boxes
- ☒ Packing CD, DVD, etc.



Activation and heat sealability

The polypropylene film is one-side activated on the outer side of the roll, allowing heat sealing below the melting point of polypropylene, the sealing temperature is selected depending on the characteristics of sealing electrodes and sealing rate.

In the period of three months, counting from the date of production, the guaranteed minimum level of activation is 36 mN / m.

Main properties

- ☒ Szeroki Heat sealing range
- ☒ A wide range of heat sealing temperatures
- ☒ Excellent optical properties
- ☒ Good physical and mechanical properties
- ☒ Low coefficient of friction
- ☒ Admission to contact with food
- ☒ Activated layer on the outer side of the roll
- ☒ A wide range of sealing
- ☒ Good thermal properties, maintaining adequate moisture and impermeability of odoriferous substances
- ☒ Suitable slip properties and antiblocking, which allows processing in packaging machines

Properties		Unit	Values								Method	
Thickness +/- 5%		µm	10	12	15	17	20	25	30	35	40	-
Density		g/cm3	0,91									
Weight m ² +/-5%		g/m2	9,1	10,91	13,65	15,47	18,2	22,75	27,3	31,85	36,4	
Yield +/-5%		m2/kg	109,9	91,66	73,26	64,89	54,95	43,96	36,63	31,4	27,47	
Tensile strenght (not less)	MD	N/mm2	130				140				ISO 527 ASTM D 882	
	TD	N/mm2	230				250					
Elongation at break (not more)	MD	%	220				200					
	TD	%	80				70					
Kinetic coefficient of friction (14 days after production)		-	0,3							0,1	ISO 8295 ASTM D 1894	
										-0,1		
Thermal shrinkage (not more)	MD	%	5			4					ISO 11501 ASTM D 1204	
	TD	%	3			2						
Heat sealing strenght (not less)		N/15mm	2,1	2,2			2,5		2,8			ISO 527 ASTM F 88 ASTM D 882
Heat sealing range		°C	105-140								-	
Haze (not more)		%	2,5				2,8				ISO 14782 ASTM D 1003	
Gloss (not less)	T	%	85								ISO 2813 ASTM D 2457	
Treatment level (not less)		mN/m	38								ISO 8296 ASTM D 2578	

MD - along
TD - across
T - treatment side

Note: All data included in the sheet come from the film manufacturer, MarDruk packaging company has not carried out any tests of the material.