MarDruk opakowania sp. z o.o. sp. k.
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CPP CAST FILM

CAST CPP polypropylene film, not oriented, heat sealable on both sides , good for printing and lamination.

CAST film has very good sealing properties, it also has a strong seal as the inner layer of the laminate. PP film is non-oriented, therefore during its processing only minimal tension is allowed. Depending on the application (printing , lamination , metallization , coating) the level of ionization is guaranteed for a period of three months . CAST film is produced by extrusion on a water-cooled cylinder.

Application

- Laminating, printing , metallization
- Packages which contact with high temperature – pasteurization, sterilization
- Packaging requiring perforation
- For vertical VFFS and horizontal HFFS packaging machines
- Food Bags
- Packaging for fresh products e.g. vegetables
- Packaging for textile industry
- Packing for sweets – torsion film
- Flower film
- Film for deeply frozen products

Main properties

- Five layered
- Produced with innovative methods that allow to obtain a material with physical properties similar to polyethylene and optical properties similar to polypropylene
- High gloss, high transparency, high barrier to steam
- Characteristic feature of CAST is high packaging efficiency in comparison with other films of the same thickness
- Ideal do lamination and perforation
- Good for sealing
- High gloss, high transparency, high barrier to steam
- Resistant to mechanical factors (puncture, tear)
- Thermal resistance (alone or as a laminate layer at heightened temperatures)
- A wide range of coefficients of friction (for high-speed packaging machines – low coefficients, and for textile packaging – high coefficients)

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Properties		Unit	Values																				
Thickness +/- 6%		µm	20	25	28	30	33	35	36	38	40	42	43	45	50	55	60	65	70	75	80	90	120
Density		g/cm 3	0,9																				
Weight +/- 6%		g/m2	18,0	22,5	25,2	27,0	29	32	32	34	36,0	38	39	41	45,0	50	54,0	58,5	63,0	67,5	72,0	81,0	108,0
Yield +/- 6%		m2/kg	55,6	44,4	39,7	37,0	33,9	31,7	30,9	29,2	27,8	26,5	25,8	24,7	22,2	20,2	18,5	17,1	15,9	14,8	13,9	12,3	9,3
Tensile strenght (not less)	MD	%	40		50		55	55		55	58	56			45	42		40		38		36	34
	TD	%	20		30		30	35		37	37	37			36	36		35		32		30	30
Elongation at break (not less)	MD	%	550				560				560				570	570		580		580		620	720
	TD	%	700				710				720				720	740		720		700		720	780
Kinetic coefficient of friction(5 dni after production)		-	0,25																		0,35		
*Haze (not more)		%	3,5						3,7						3,9	4,2		4,5		4,7		5,5	14,0
Gloss (45°)		%	85																	80			70
Treatment level		mN/m	36																				
** Suitability for printing and lamination		-	TAK																				
Heat sealing range		°C	125-150																				

* Measured right after production

** Suitability for printing and lamination is examined by a tester Arcotest 38. The film is useful for printing when the layer of the applied liquid dries to form a closed shell. In the case when after application of the liquid some areas remain wet or the dye spatters, the film is not suitable for printing and laminating.

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.