

VerCAST S technical data sheet

POLYPROPYLENE NON-ORIENTED CAST FILM with sealing layers suitable for sterilization

ADVANTAGES

- good mechanical and optical properties
- tear and puncture resistance
- optimal sealing properties
- increased resistance to high temperatures treatment
- high barrier properties and water-steam permeation
- one side corona treatment (outer layer of the roll)

APPLICATIONS

- packaging material for food and medical articles
- for lamination with other films
- suitable for flexo and roto printing
- suitable for sterilization, pasteurization, autoclave

TECHNICAL PARAMETER

Requirements	Nominal/guaranteed value									Research method
Thickness [μm], $\pm 6\%$	30	40	50	55	60	70	80	90	100	ISO 4593
Density [g/cm^3]	0,9									ISO 845
Unit weight [g/m^2]	27,0	36,0	45,0	49,5	54,0	63,0	72,0	81,0	90,0	ISO 536
Packaging capability [m^2/kg]	37,0	27,8	22,2	20,2	18,5	15,9	13,9	12,3	11,1	ISO 536
Tensile strength [N/mm^2]										ISO 527-1, -3
- MD, not less than										
- TD, not less than	25	25	25	25	25	25	20	20	20	
Elongation at break [%]										ISO 527-1, -3
- MD, not less than										
- TD, not less than	600	650	650	650	650	650	650	650	650	
Coefficient of friction, (film/film), NT/NT, not more than	0,25									ISO 8295
Haze* [%], no more than	3,3	3,8	4,0	4,4	4,6	5,0	5,4	6,5	8,0	ASTM D 1003
Gloss (45°)* [%], not less than	80									ASTM D 2457
Treatment [mN/m], not less than	36									ISO 8296
Lamination and print usability	tak									MW/Veroni-Pak/01
Sealing temperature range [$^{\circ}\text{C}$]**	140-170									

* / Test performed directly after the extrusion.

** / Tested in laboratory conditions. Industrial sealing temperature depends on a type of sealing electrode and speed of the sealing/ welding process.

Ability for printing and lamination is checked with a test ink. Film is suitable for printing/ lamination only if the layer of a test ink is a homogenous, continuous and indelible area after it dries out. Ability for printing/ lamination is guaranteed for the period of 3 months from the manufacturing date indicated on the label attached to every roll. Other parameters listed above are guaranteed for the period of 6 months from the manufacturing date.

IMPORTANT: If the film is stored in the temperature below 15°C , it requires additional conditioning in the processing temperature $\geq 20^{\circ}\text{C}$ during min. 24h. The manufacturer recommends the following film processing conditions: temperature: $15 - 35^{\circ}\text{C}$, humidity: max. 75% Rh. Compliance with these conditions ensures specified properties of the film and flawless processability.

The technical parameters in the table are based on laboratory tests and are for informative purposes only.

Veroni-Pak reserves the right to amend them.

All the parameters' values given in the table above apply only to unprocessed film.

It is necessary to validate VerCAST film at every stage in the actual processing conditions.

We also recommend to validate the film as a part of a finished packaging in the conditions of its final destination.

The film is fully recyclable with standard recycling systems.