

VerCAST SF technical data sheet

POLYOLEFIN NON-ORIENTED CAST FILM with sealing layers, suitable for deep freezing

ADVANTAGES

- Very good mechanical and optical properties
- High tear and puncture resistance
- low (-) temperature resistance
- optimal sealing properties
- high barrier properties against smells and water-steam permeation
- one side corona treatment (outer layer of the roll)

APPLICATIONS

- packaging material for storing of frozen products
- for flexo and roto printing

TECHNICAL PARAMETERS

Requirements	Nominal/guaranteed value				Research method
Thickness [μm], ± 6%	23	25	27	30	ISO 4593
Density [g/cm ³]	0,91				ISO 845
Unit weight [g/m ²]	20,9	22,8	24,6	27,3	ISO 536
Packaging capability [m ² /kg]	47,8	43,9	40,7	36,6	ISO 536
Tensile strength [N/mm ²] - MD, not less than - TD, not less than	30 20				ISO 527-1, -3
Elongation at break [%] - MD, not less than - TD, not less than	500 680	550 690	580 700	600 700	
Coefficient of friction, (film/film), NT/NT not less than	0,15				ISO 8295
Haze*, [%], no more than	3,0	3,2	3,4	3,5	ASTM D 1003
Gloss (45°)*, [%], not less than	85				ASTM D 2457
Treatment, [mN/m], not less than	36				ISO 8296
Lamination and print usability	yes				MW/Veroni-Pak/01
Sealing temperature range [° C]**	125-140				

Requirements	Nominal/guaranteed value				Research method
Thickness [μm], ± 6%	34	38	40	48	ISO 4593
Density [g/cm ³]	0,91				ISO 845
Unit weight [g/m ²]	30,9	34,6	36,4	43,7	ISO 536
Packaging capability [m ² /kg]	32,4	28,9	27,5	22,9	ISO 536
Tensile strength [N/mm ²] - MD, not less than - TD, not less than	35 23	35 25	35 25	35 25	ISO 527-1, -3
Elongation at break [%] - MD, not less than - TD, not less than	600 700	650 750	650 750	680 750	
Coefficient of friction, (film/film), NT/NT not less than	0,15				ISO 8295
Haze*, [%], no more than	3,6	3,7	3,8	4,2	ASTM D 1003
Gloss (45°)*, [%], not less than	85				ASTM D 2457
Treatment, [mN/m], not less than	36				ISO 8296
Lamination and print usability	yes				MW/Veroni-Pak/01
Sealing temperature range [°C]**	125-140				

*/ 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, nonetheless it is recommended to use the film during first 3 months after the production when it maintains its best properties.

IMPORTANT: If the film is stored in the temperature below 15°C, it requires additional conditioning in the processing temperature ≥20 °C during min. 24h.

The manufacturer recommends the following film processing conditions: temperature: 15 - 35°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.

It is possible to manufacture film in other thicknesses than these specified in the table above.

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.