

FILMON® CS

CAST Non-Oriented Polyamide Film, One Side (OUT) Corona Treated

FILMON® CS is manufactured by flat die coextrusion technology in various thicknesses. It can cover a variety of applications thanks to its forming properties, strength, gas impermeability, aesthetics, chemical and thermal stability. The thinner gauges are well appreciated when used for the production of vacuum bags and pouches, the thicker ones shall be selected according to overall requirements and drawing ratios.

Property	Unit	Method	Typical Value												
			20	25	30	40	50	60	70	75	80	90	100		
Specific Properties	Unit Weight	g/m ²	ASTM E 252	22,6	28,3	33,9	45,2	56,5	67,8	79,1	84,8	90,4	101,7	113,0	
	Thickness	µm	-	20,0	25,0	30,0	40,0	50,0	60,0	70,0	75,0	80,0	90,0	100,0	
	Haze	%	ASTM D 1003	4,5	4,5	4,5	5,0	5,0	5,5	6,5	7,0	7,0	7,5	8,5	
	Tensile Strength	(MD)	kg/mm ²	ASTM D 882	13,5	13,0	13,0	12,0	11,5	11,0	10,5	10,0	10,0	10,0	10,0
		(TD)			10,5	10,5	10,5	10,5	10,5	10,0	9,5	9,0	9,0	9,0	9,0
	Elongation at Break	(MD)	%	ASTM D 882	410	420	460	470	500	510	510	530	530	540	540
		(TD)			450	460	490	500	510	520	520	540	540	550	550
Surface Tension of Corona Side	(OUT)	dyne/cm	ASTM D 2578	54	54	54	54	54	54	54	54	54	54	54	
C.o.F., µk film to film	(IN/IN)	-	ASTM D 1894	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	
General Properties	Density	g/cc	ASTM D 1595	1,13	1,13	1,13	1,13	1,13	1,13	1,13	1,13	1,13	1,13	1,13	
	Yield	m ² /kg	-	44,2	35,4	29,5	22,1	17,7	14,7	12,6	11,8	11,1	9,8	8,8	
	O ₂ TR @23°C/65% R.H.	cc/m ² /24h	ASTM D 1927	34	29	23	17	14	11	10	9	9	8	7	
	O ₂ TR @23°C/dry	cc/m ² /24h	ASTM D 3985	54	45	36	27	21	18	15	14	13	12	11	
	CO ₂ TR @23°C/dry	cc/m ² /24h	ASTM D 2476	215	179	143	107	86	72	61	58	54	49	43	
	WV TR @38°C/90% RH	g/m ² /24h	ASTM F 1249	285	238	190	143	115	95	80	75	70	63	55	
	Melting Temperature	°C	DSC	220	220	220	220	220	220	220	220	220	220	220	
Features of the Reels	Inside Core Diameter	inch/mm	-	6/152,4	6/152,4	6/152,4	6/152,4	6/152,4	6/152,4	6/152,4	6/152,4	6/152,4	6/152,4	6/152,4	
	Length	m	-	10800	9000	8000	8400 ⁽¹⁾	4800	4000	3400	3200	3000	2700	2400	
	Outside Diameter	mm	-	≤600	≤600	≤600	≤800 ⁽¹⁾	≤600	≤600	≤600	≤600	≤600	≤600	≤600	
	Net Weight of width 1000 mm	kg	-	244	254	271	380 ⁽¹⁾	271	271	269	271	271	275	271	

⁽¹⁾ 5600 m reels - OD ≤600 mm - Net Weight of width 1000 mm = 253 kg are available upon special agreement with or sales organization.

Test conditions: 23°C, 50% R.H. unless otherwise specified.

The properties of other thicknesses can be directly deduced from the above results. Dedicated TDSs are available upon request.

Storage: provided that the product is protected in its original or equivalent packaging, it does not require special measures for its indoor storage. Extreme conditions shall be avoided, either temperature and humidity. Keep the product away from direct sunlight, from heat sources and possibly on a shelf and not on the floor. However, it is recommended to store the product in an ambient with relative humidity below 75% and temperature between 15 and 30°C.

Guarantee: Jindal Nylon Films gives guarantee and recommends the use of its products within six months from the delivery date, to get an optimum output.

Traceability/Labeling: The traceability is guaranteed by the "REEL N." as marked on the reel labels. Each reel is identified by three labels, one is placed inside the core, the second one on the wrapping liner and the third one on the side-plate. Each pallet is, on its turn, identified by suitable labels placed on both front and side of the unit.

Thermal treatments: The product is currently and successfully used as component of multilayer structures for applications typical of the food and medical market segments where thermal treatments (e.g. pasteurization, retort) and/or preservation processes (e.g. refrigeration, deep-freezing) are applied. However, it should be emphasized that we are unable to guarantee and ensure the technological suitability of our product for the intended use.

Due to many uses to which this material is put and the different equipment and techniques used, we cannot guarantee results in specific instances, nor should any statement herein be construed as a recommendation to use our products in the infringement of a patent.

It is the customer's responsibility to inspect and test our product in order to satisfy itself as to the suitability of the product for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our product.

These data are aimed to represent a typical behavior and are considered to be thoroughly reliable. However, they are given for information only. This data sheet replaces and supersedes any before specifications (SdPF CAST rev. 7). Jindal Nylon Films reserves the right to change specifications without prior notice.

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