



FILMON® CS

CAST Non-Oriented Polyamide Film, One Side 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					
				CS 20	CS 30	CS 40	CS 50	CS 60	
Specific Properties	Unit Weight	g/m ²	ASTM E 252	22,6	33,9	45,2	56,5	67,8	
	Thickness	µm	-	20,0	30,0	40,0	50,0	60,0	
	Haze	%	ASTM D 1003	4,5	4,5	5,0	5,0	5,5	
	Tensile Strength	(MD)	kg/mm ²	ASTM D 882	13,5	13,0	12,0	11,0	10,5
		(TD)			10,5	10,5	10,5	10,0	9,5
	Elongation at Break	(MD)	%	ASTM D 882	400	500	520	530	530
		(TD)			450	530	530	530	530
Surface Tension of Corona Side (OUT)	dyne/cm	ASTM D 2578	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		
General Properties	Density	g/cc	ASTM D 1595	1,13	1,13	1,13	1,13	1,13	
	Yield	m ² /kg	-	44,2	29,5	22,1	17,7	14,7	
	O ₂ TR @23°C/65% R.H.	cc/(m ² ·24h·atm)	ASTM D 1927	34	23	17	14	11	
	O ₂ TR @23°C/dry	cc/(m ² ·24h·atm)	ASTM F 3985	54	36	27	21	18	
	CO ₂ TR @23°C/dry	cc/(m ² ·24h·atm)	ASTM D 2476	215	143	107	86	72	
	WV TR @38°C/90% RH	g/(m ² ·24h)	ASTM F 1249	285	190	143	115	95	
	Melting Temperature	°C	DSC	220	220	220	220	220	
Features of the Reels	Inside Core Diameter	inch / mm	-	6 / 152	6 / 152	6 / 152	6 / 152	6 / 152	
	Length	m	-	10.800	8.000	8.400 ⁽¹⁾	4.800	4.000	
	Outside Diameter	mm	-	≤ 600	≤ 600	≤ 800 ⁽¹⁾	≤ 600	≤ 600	
	Net Weight per 1.000 mm width	kg	-	245	275	380	275	275	

⁽¹⁾ 5.600 m reels (OD ≤ 600 mm - Net Weight per 1.000 mm width = 255 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: DOMO Film Solutions 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 rev. 5). DOMO Film Solutions reserves the right to change specifications without prior notice.