



# NYLON

CODE N

Nylon films are biaxially oriented nylon 6 films with excellent strength and barrier properties. It is well suited for a variety of packaging applications.

**TECHNICAL DATA**

TYPICAL PROPERTIES	UNIT		TEST METHODS	TYPICAL VALUE				
THICKNESS	micron		Micrometer	10	11	12	15	25
YIELD	m <sup>2</sup> /kg		ASTM D4321	86.2	78.37	71.83	57.47	34.48
DENSITY	g/cm <sup>3</sup>		ASTM D-1505	1.16	1.16	1.16	1.16	1.16
AVERAGE THICKNESS VARIATION	%		ASTM E-252-78	± 3	± 3	± 3	± 3	± 3
TENSILE STRENGTH	N/mm <sup>2</sup> (min.)	MD	ASTM D-882	250	250	250	250	250
		TD		250	250	250	250	250
ELONGATION OF BREAK	%	MD	ASTM D-882	90-150	90-150	90-150	90-150	90-150
		TD		90-130	90-130	90-130	90-130	90-130
DIMENSIONAL STABILITY 160 °C, 5 minutes	%	MD	ASTM D-1204	2.0	2.0	2.0	2.0	2.0
		TD		2.0	2.0	2.0	2.0	2.0
C.O.F.	Both side non-treatment film	Inside	ASTM D-1894	0.3-0.5	0.3-0.5	0.3-0.5	0.3-0.5	0.3-0.5
		Outside		0.3-0.5	0.3-0.5	0.3-0.5	0.3-0.5	0.3-0.5
	One side treatment film	treated side		0.6-0.9	0.6-0.9	0.6-0.9	0.6-0.9	0.6-0.9
		nontreated side		0.3-0.5	0.3-0.5	0.3-0.5	0.3-0.5	0.3-0.5
	Both side treatment film	Inside		0.6-0.9	0.6-0.9	0.6-0.9	0.6-0.9	0.6-0.9
		Outside		0.6-0.9	0.6-0.9	0.6-0.9	0.6-0.9	0.6-0.9
PUNCTURE RESISTANCE	N ( min )		ASTM D 3763	9	10	10	12	20
FLEX-CRACKING	Holes/ 500 cm <sup>2</sup> ( max )		1000 cycles , -20°C	30	40	40	50	50
			1000 cycles , 25°C	1	1	1	1	1
HAZE	% (max.)		ASTM D-1003-61	2.5	2.5	2.5	2.5	2.5
GLOSS (angle 60°)	% (min.)		ASTM D-2457	145	145	145	145	145
WETTING TENSION	Both side non-treatment film	Inside	ASTM D-2578	-	-	-	-	-
		Outside		-	-	-	-	-
	One side treatment film	treated side		min. 52	min. 52	min. 52	min. 52	min. 52
		nontreated side		-	-	-	-	-
	Both side treatment film	Inside		min. 52	min. 52	min. 52	min. 52	min. 52
		Outside		min. 52	min. 52	min. 52	min. 52	min. 52
WVTR	g/m <sup>2</sup> .day (max.)		ASTM E-398-03 38°C ,90% RH	300	300	300	200	180
O <sub>2</sub> TR	cm <sup>3</sup> /m <sup>2</sup> .day.bar (max.)		ISO 15105-1 23°C ,0% RH ,1 atm	20	20	20	20	15

**DESCRIPTION OF SUPPLY****PAPER CORE I.D.**

76 mm (3 in.)

**ROLL O.D.**

max. 1000 mm

**WIDTH RANGE**

100 mm - 2000 mm. (other width on request)

**LENGTH RANGE**

standard 2000 m, 3000 m, 4000m and 6000 m. (other length on request)

**OUR PRODUCT COMPLY WITH U.S.21 CFR F.D.A. REGULATION PART 177.1500**

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