



**BOPP CO-EX
CIGARETTE
WRAPPING
LOW H/S**

Special formulated for cigarette wrapping application designed to process in high speed automatic machine. TFI film provides low friction and high stiffness properties, with exceptional low heatseal & high seal strength on both sides

PRODUCT CODE NO. OP - 100A

TECHNICAL DATA

TYPICAL PROPERTIES	UNIT		TEST METHODS	TYPICAL VALUE			
THICKNESS	micron		Micrometer	19	20	21	25
YIELD	m ² /kg (min.)		-	58.48	55.56	52.91	44.44
DENSITY	g/cm ³		ASTM D-1505	0.90	0.90	0.90	0.90
AVERAGE THICKNESS VARIATION	% (max.)		ASTM E-252	± 3	± 3	± 3	± 3
TENSILE STRENGTH	kg/mm ² (min.)	MD	ASTM D-882	15	15	15	15
		TD		24	24	24	24
ELONGATION AT BREAK	% (max.)	MD	ASTM D-882	180	180	180	180
		TD		70	70	70	70
THERMAL SHRINKAGE (120°C 15 minutes)	% (min.)	MD	ASTM D-1204	3.0	3.0	3.0	3.0
		TD		4.0	4.0	4.0	4.0
KINETIC C.O.F.	film/film		ASTM D-1894	0.20-0.35	0.20-0.35	0.20-0.35	0.20-0.35
SEAL TEMPERATURE	°c		1 BAR 1 SEC	115	115	115	115
SEAL STRENGTH	g/cm		-	150	150	150	150
HAZE	% (max.)		ASTM D1003	2.2	2.2	2.2	2.2
GLOSS (angle 45°)	% (min.)		ASTM D-2457	75	75	75	75
WVTR	g/m ² /24hr (max.)		ASTM F-1249	9	8	8	6
O ₂ TR	cc/m ² /24hr (max.)		ASTM D-3985	2100	2,000	2,000	1,800

DESCRIPTION OF SUPPLY

PAPER CORE I.D.	77 mm (3 in.), 153 mm (6 in.)
ROLL O.D.	Max. 350 mm
WIDTH RANGE	100 mm - 400 mm (other width on request)
LENGTH RANGE	STANDARD 2,000 m, 4,000 m (other length on request)
JOINT	Maximum 10% per order

Food approval : complied with FDA & EU regulations (on request)

Storage condition: should be keep at ambient temperature ~ 30°C and not over 40°C and keep in dry storage.

FURTHER TECHNICAL INFORMATION ON REQUEST

The above standard film properties are subjected to change and periodical modification without prior notice, please re-check for the most update version with our Sales & Marketing Department.