



**BOPP CO-EX  
PEARLIZED OPAQUE  
LOW H/S**

Is widely used in surface printing for packaging application. Excellent machinability with both sides heatsealable. TFI film shows the pearlized white opacity appearance.

PRODUCT CODE  
NO. OP - 109 R3

**TECHNICAL DATA**

TYPICAL PROPERTIES	UNIT		TEST METHODS	TYPICAL VALUE				
				25	30	35	40	50
THICKNESS	micron		Micrometer	25	30	35	40	50
YIELD	m <sup>2</sup> /kg (min.)		-	59.70	49.75	42.64	35.71	28.57
DENSITY	g/cm <sup>3</sup>		ASTM D-1505	0.65-0.70	0.65-0.70	0.65-0.70	0.68-0.72	0.68-0.72
TENSILE STRENGTH	kg/mm <sup>2</sup> (min.)	MD	ASTM	6	6	6	6	6
		TD	D-882	12	12	12	12	12
ELONGATION AT BREAK	% (max.)	MD	ASTM	140	140	140	140	140
		TD	D-882	50	50	50	50	50
THERMAL SHRINKAGE (120°C 15 minutes)	% (max.)	MD	ASTM	4.0	4.0	4.0	4.0	4.0
		TD	D-1204	2.0	2.0	2.0	2.0	2.0
STATIC C.O.F.	film/film		ASTM D-1894	0.3 - 0.4	0.3 - 0.4	0.3 - 0.4	0.3 - 0.4	0.3-0.4
SEALING TEMPERATURE	°C		1 BAR 1 SEC	115	115	115	115	115
SEALING STRENGTH	g/cm (min.)		-	80	80	80	80	80
GLOSS (angle 45°)	% (min.)		ASTM D-2457	26	26	26	26	26
WVTR	g/m <sup>2</sup> /24 hr (max.)		ASTM F-1249	5.0	4.2	3.6	3.2	3.0
O <sub>2</sub> TR	cc/m <sup>2</sup> /24 hr (max.)		ASTM D-3985	1,700	1,600	1,500	1,400	1,200
WETTING TENSION	Dyne/cm (min.)		ASTM D-2578	38	38	38	38	38

**DESCRIPTION OF SUPPLY**

PAPER CORE I.D.	77 mm (3 in.) 153 mm (6 in.)
ROLL O.D.	max. 800 mm
WIDTH RANGE	100 mm - 1,500 mm. (other width on request)
LENGTH RANGE	STANDARD 4,000 m., 6,000 m., 8,000 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.