

## JK Materials Co.,Ltd.

313-55, Sinpyeong-gil, Sinpyeong-myeon, Dangjin-si, Chungcheongnam-do, Korea TEL : (82) 31-451-2050, FAX : (82) 41-363-6882

### JK BOPA Technical Data Sheet (one side corona)

2017. 01. 02

Item		Unit	12mic	15mic	25mic	Test Method
Thickness	Ave	μm	12.0	15.0	25.0	Point to Point Max' - Min'
	Range		±0.5	±0.75	±1.0	
Tensile Strength	MD	kg/mm <sup>2</sup>	27.0±3.0	27.0±3.0	23.0±3.0	ASTM D-882
	TD		33.0±3.0	33.0±3.0	30.0±3.0	
Elongation at Break	MD	%	150±15	160±15	180±30	ASTM D-882
	TD		110±15	110±15	110±15	
Heat Shrinkage by Heated Air	MD	%	1.75±0.50	1.50±0.50	1.00±0.50	160℃ / 15min
	TD		1.00±0.50	0.50±0.50	0.50±0.50	
Heat Shrinkage by Heated Boiling Water	MD	%	4.00±1.00	2.50±0.75	2.50±0.75	100℃ / 30min
	TD		4.00±1.00	2.50±0.75	1.50±0.75	
Haze		%	3.0±0.5	3.3±0.5	4.3±0.5	ASTM D-1003
Friction Coefficient		μs	0.80±0.15	0.70±0.15	0.60±0.15	ASTM D-1894
		μk	0.70±0.15	0.60±0.15	0.50±0.15	
Wetting Tension	Treated	dyne/cm	52±4	52±4	52±4	ASTM D-2578
	No Treated	dyne/cm	36±2	36±2	36±2	
Water Vapor Transmission Rate		g/m <sup>2</sup> .24hr	Below than 900	Below than 700	Below than 550	ASTM F-1249 (37.8℃, 100%RH)
Oxygen Permeability		cc/m <sup>2</sup> .24hr.atm	Below than 100	Below than 80	Below than 55	ASTM D-3985 (23℃, 0% RH)
Test Condition			23±3℃, 50±5%RH			
<b>Physical property can be changed upon customer's request</b>						

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### JK BOPA Technical Data Sheet (both side corona)

2017. 01. 02

Item		Unit	12mic	15mic	25mic	Test Method
Thickness	Ave	μm	12.0	15.0	25.0	Point to Point Max' - Min'
	Range		±0.5	±0.75	±1.0	
Tensile Strength	MD	kg/mm <sup>2</sup>	27.0±3.0	27.0±3.0	23.0±3.0	ASTM D-882
	TD		33.0±3.0	33.0±3.0	30.0±3.0	
Elongation at Break	MD	%	150±15	160±15	180±30	ASTM D-882
	TD		110±15	110±15	110±15	
Heat Shrinkage by Heated Air	MD	%	1.75±0.50	1.50±0.50	1.00±0.50	160℃ / 15min
	TD		1.00±0.50	0.50±0.50	0.50±0.50	
Heat Shrinkage by Heated Boiling Water	MD	%	4.00±1.00	2.50±0.75	2.50±0.75	100℃ / 30min
	TD		4.00±1.00	2.50±0.75	1.50±0.75	
Haze		%	3.0±0.5	3.3±0.5	4.3±0.5	ASTM D-1003
Friction Coefficient		μs	0.90±0.15	0.80±0.15	0.70±0.15	ASTM D-1894
		μk	0.80±0.15	0.70±0.15	0.60±0.15	
Wetting Tension	Treated	dyne/cm	52±4	52±4	52±4	ASTM D-2578
	Treated	dyne/cm	52±4	52±4	52±4	
Water Vapor Transmission Rate		g/m <sup>2</sup> .24hr	Below than 900	Below than 700	Below than 550	ASTM F-1249 (37.8℃, 100%RH)
Oxygen Permeability		cc/m <sup>2</sup> .24hr.atm	Below than 100	Below than 80	Below than 55	ASTM D-3985 (23℃, 0% RH)
Test Condition			23±3℃, 50±5%RH			
<b>Physical property can be changed upon customer's request</b>						