

**Technology data for BOPS window envelope film**
**(Biaxially oriented polystyrene film)**

<b>CERTIFICATE OF ANALYSIS</b>				
<b>Type of film: BOPS WINDOWS ENVELOPE FILM GLOSSY</b>				
<b>PROPERTIES</b>	<b>UNIT</b>		<b>RESULT</b>	<b>TEST STANDARD</b>
AVERAGE GAUGE	MICRON μm		25.07	-
THICKNESS TOLERRANCE(MAX)	%		±5	
HAZE	%		1.7	ASTM D-1003
GLOSS 45°	%		120	ASTM D-2457
TENSILE STRENGTH	MPa	MD	27.4	JIS K7127
	MPa	TD	48.4	JIS K7127
ELONGATION AT BREAK	%	MD	113.4	JIS K7127
	%	TD	40.26	JIS K7127
MODULUS OF ELASTICITY 弹性模量	MPa	MD	1311	JIS K7127
		TD	1404	JIS K7127
COF	AA	AB	BB	ASTM D-1894
	0.508	0.520	0.455	

## CERTIFICATE OF ANALYSIS

**Type of film: BOPS windows envelope film matt**

PROPERTIES 性能	UNIT 单位	RESULT 指标	TEST STANDARD 测定方法
AVERAGE GAUGE 平均厚度	MICRON μm	28.9	GB/T 6672-2001
THICKNESS TOLERRANCE(MAX) 厚度偏差	%	±5	-
HAZE 雾度	%	26.5	GB/T 2410-80
GLOSS 45° 光泽度	%	60	GB/T 8807-88
TENSILE STRENGTH 抗拉强度	MPa	MD	50
		TD	67
ELONGATION AT BREAK 断裂伸长率	%	MD	28
		TD	76
MODULUS OF ELASTICITY 弹性模量	MPa	MD	2355
		TD	2427
COF 摩擦系数	涂布面/涂布面 (外面/外面)	涂布面/非涂布面 (外面/内面)	非涂布面/非涂布面 (内面/内面)
	0.246	0.302	0.413