



Customer	JOLYBAR FILMTECHNIC CONVERTING
Product	Hyosung Polyester Film
Specification	100 μm × 1,245/1,510mm × 3,000m
Roll Number	414863390E101/102/103/201/202/203 414863391E101/102/103/201/202/203
Treatment	Both Acryl

	Property	Spec	Value	Unit	Test Method
General Property					
Thickness		100.0±2.5	99.9	μm	Hyosung Method
Thermal Property					
Heat Shrinkage (dry air)	MD	≤ 1.5	1.5	%	Hyosung Method
	TD	≤ 0.5	-0.1	%	(150°C × 30 min)
Mechanical Property					
Tensile Strength	MD	21.0±5.0	23.0	kgf/mm ²	ASTM D882
	TD	23.0±5.0	26.5	kgf/mm ²	
Elongation at Break	MD	160±50	160	%	ASTM D882
	TD	140±50	124	%	
F-5 value	MD	10.5±1.5	11.2	kgf/mm ²	ASTM D882
	TD	10.0±1.5	10.7	kgf/mm ²	
Surface Property					
COF (in to in)	static	0.35±0.1	0.37	-	ASTM D1894
	kinetic	0.30±0.1	0.29	-	
COF (in to out)	static	0.35±0.1	0.36	-	ASTM D1894
	kinetic	0.30±0.1	0.29	-	
Surface Tension	In	37±3	38	dyne/cm	ASTM D2578
	Out	37±3	38	dyne/cm	
Optical Property					
Haze		2.0±0.5	1.7	%	ASTM D1003
Light Transmittance		≥ 89.0	91.0	%	

Assured by Quality Assurance
Manager of Yongyeon Plant