

# Physical Properties (Typical Value)

Item	Grade	Unit	1011	1011	1011	1011	1011	Method
			HG	HG- CW	HG- CR	HG- CX	HG- CE	
Thickness		μm	12	12	12	12	12	□
Tensile strength	MD	Mpa	220	220	220	220	220	JIS C2318
	TD		250	250	250	250	250	
Elongation	MD	%	140	140	140	140	140	
	TD		120	120	120	120	120	
Young's modulus	MD	Mpa	4600	4600	4600	4600	4600	
	TD		5100	5100	5100	5100	5100	
Haze		%	2.5	2.5	2.5	2.5	2.5	JIS K7361
Transparency		%	89	89	89	89	89	
Wetting tension of metallized side		dyne/ cm	52↑	52↑	38↑	38↑	38↑	JIS K6768
Oxygen transmission rate	Typical	cc/100in <sup>2</sup> □ day	0.09	0.036	0.09	0.09	0.072	JIS K7126B (20□,0%RH)
	Guarantee		0.18	0.06	0.18	0.18	0.12	
Moisture transmission rate	Typical	g/100in <sup>2</sup> □ day	0.09	0.06	0.09	0.09	0.072	JIS K7129B (40□,90%RH)
	Guarantee		0.18	0.12	0.18	0.18	0.12	

□ Winding status of all product : metallized side is inner