

## Smart<sup>™</sup> 181

Smart<sup>™</sup> 181, metallocene LLDPE, is an ethylene-octene copolymer produced via Nexlene<sup>™</sup> Technology from SK. It performs well in a wide range of general purpose of LLDPE blown film applications, and has excellent melt flow characteristics.

<u>Applications:</u> Low-temperature Seal Packaging, Lamination Film, Food and Non-Food Packaging, etc.

Additives	Antiblock: No	Slip: No	)		
			Typical Values	Unit	Test Method
Resin	Co-monomer		Octene-1		SK Method
Properties	Density		0.918	g/cm <sup>3</sup>	ASTM D1505
	МІ		1.0	g/10min	ASTM D1238
	Melting Point		~ 115	°C	SK Method
			1000		
Film	Dart Drop Impact		1000	g	ASTM D1709
<b>Properties*</b>	Haze		10	%	ASTM D1003
	Lowest Heat-seal Temp.		110	°C	SK Method
	Initial Tear Strength	MD	115	kg/cm	ASTM D1004
		TD	120	kg/cm	ASTM D1004
	Elmendorf Tear Strength	MD	14	g/um	ASTM D1922
		TD	22	g/um	ASTM D1922
	Tensile Strength at Break	MD	550	kg/cm <sup>2</sup>	ASTM D882
		TD	550	kg/cm <sup>2</sup>	ASTM D882
	Elongation at Break	MD	630	%	ASTM D882
		TD	730	%	ASTM D882
	Tensile Strength at Yield	MD	120	kg/cm <sup>2</sup>	ASTM D882
		TD	115	kg/cm <sup>2</sup>	ASTM D882
	Secant Modulus (1%)	MD	1430	kg/cm <sup>2</sup>	ASTM D882
		TD	1590	kg/cm <sup>2</sup>	ASTM D882

## Conditions for blown film production

- Machine: Macci blown film line with 50Ø screw

- Film specification: 50um x 600mm

These are typical values and are not to be construed as specifications. The physical properties are highly dependent on the manufacturing conditions. So customers should confirm performances by their own tests.