



Date Prepared: 20th, May., 2014

Smart™ 151S

Smart™ 151S, metallocene LLDPE, is an ethylene-octene copolymer produced via Nexlene™ Technology from SK. It performs well in a wide range of general purpose of LLDPE blown film applications, and has excellent melt flow characteristics.

Applications: Low-temperature seal packaging, lamination film, food and non-food packaging, etc.

Additives Antiblock: Yes Slip: Yes

			Typical Values	Unit	Test Method
Resin properties	Co-monomer		Octene-1		SK Method
	Density		0.915	g/cm ³	ASTM D1505
	MI		1.0	g/10min	ASTM D1238
	Melting point		~ 113	°C	SK Method
Film Properties*	Dart drop impact		1000	g	ASTM D1709
	Haze		10	%	ASTM D1003
	Gloss (at 45°)		60		ASTM D2457
	Lowest heat-seal Temp.		109	°C	SK Method
	Initial tear strength	MD	120	kg/cm	ASTM D1004
		TD	125	kg/cm	ASTM D1004
	Elmendorf tear strength	MD	15	g/um	ASTM D1922
		TD	24	g/um	ASTM D1922
	Tensile strength at break	MD	530	kg/cm ²	ASTM D882
		TD	500	kg/cm ²	ASTM D882
	Elongation at break	MD	650	%	ASTM D882
		TD	730	%	ASTM D882
	Tensile strength at yield	MD	115	kg/cm ²	ASTM D882
		TD	110	kg/cm ²	ASTM D882
	Secant modulus (1%)	MD	1390	kg/cm ²	ASTM D882
		TD	1540	kg/cm ²	ASTM D882

* Typical values, not to be used as specifications.

Conditions for blown film production

- Machine: Macci blown film line with 50Ø screw
- Film specification: 50um x 600mm