

SmartTM 181S

SmartTM 181S, metallocene LLDPE, is an ethylene-octene copolymer produced via NexleneTM 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		0.918		g/cm ³	ASTM D1505
	MI		1.0		g/10min	ASTM D1238
	Melting point		~ 115		°C	SK Method
Film	Dart drop impact		800		g	ASTM D1709
Properties*	Haze		12		%	ASTM D1003
	Gloss (at 45°)		55			ASTM D2457
	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 ²	ASTM D882
		TD	550		kg/cm ²	ASTM D882
	Elongation at break	MD	630		%	ASTM D882
		TD	730		%	ASTM D882
	Tensile strength at yield	MD	120		kg/cm ²	ASTM D882
		TD	115		kg/cm ²	ASTM D882
	Secant modulus (1%)	MD	1430		kg/cm ²	ASTM D882
		TD	1590		kg/cm ²	ASTM D882

* Typical values, not to be used as specifications.

Conditions for blown film production

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