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Smart[™] 181S

Smart[™] 181S, 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. <u>Applications:</u> Low-temperature seal packaging, lamination film, food and non-food packaging, etc.

Additives	Antiblock: Yes	Slip: Ye	es		
			Typical Values	Unit	Test Method
Resin	Co-monomer		Octene-1		SK Method
properties	Density		0.918	g/cm ³	ASTM D1505
	МІ		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: Macci blown film line with 50Ø screw
- Film specification: 50um x 600mm