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