

# Smart™ 183

Smart™ 183, metallocene LLDPE, is an ethylene-octene copolymer produced via Nexlene™ Technology from SK. It performs well in a wide range of LLDPE cast film applications, and has excellent impact strength and good transparency.

Applications: Stretch wrap, silage film, breathable film, etc.

**Additives**      Antiblock: No      Slip: No

			Typical Values	Unit	Test Method
<b>Resin properties</b>	<b>Co-monomer</b>	<b>Octene-1</b>			SK Method
	<b>Density</b>		<b>0.918</b>	g/cm <sup>3</sup>	ASTM D1505
	<b>MI</b>		<b>3.0</b>	g/10min	ASTM D1238
	<b>Melting point</b>		<b>~ 117</b>	°C	SK Method
<b>Film Properties*</b>	<b>Dart drop impact</b>		400	g	ASTM D1709
	<b>Haze</b>		2	%	ASTM D1003
	<b>Initial tear strength</b>	MD	90	kg/cm	ASTM D1004
		TD	85	kg/cm	ASTM D1004
	<b>Elmendorf tear strength</b>	MD	13	g/um	ASTM D1922
		TD	23	g/um	ASTM D1922
	<b>Tensile strength at break</b>	MD	500	kg/cm <sup>2</sup>	ASTM D882
		TD	550	kg/cm <sup>2</sup>	ASTM D882
	<b>Elongation at break</b>	MD	600	%	ASTM D882
		TD	650	%	ASTM D882
	<b>Tensile strength at yield</b>	MD	100	kg/cm <sup>2</sup>	ASTM D882
		TD	95	kg/cm <sup>2</sup>	ASTM D882

\* Typical values, not to be used as specifications.

## Conditions for Cast film production

- Machine: Cast film line with 30Ø screw
- Film specification: 40um x 355mm