

# 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</b>	<b>Co-monomer</b>	<b>Octene-1</b>		SK Method	
<b>Properties</b>	<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>~ 115</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	95	kg/cm	ASTM D1004
		TD	90	kg/cm	ASTM D1004
	<b>Elmendorf Tear Strength</b>	MD	10	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

#### Conditions for blown film production

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

These are typical values and are not to be construed as specifications. The physical properties are highly dependent on the manufacturing conditions. So customers should confirm performances by their own tests.