

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