



Date Prepared: 25th, Feb., 2014

Smart™ 153

Smart™ 153, 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, etc.

Additives Antiblock: No Slip: No

		Typical Values		Unit	Test Method
Resin properties	Co-monomer	Octene-1			SK Method
	Density	0.915		g/cm ³	ASTM D1505
	MI	3.0		g/10min	ASTM D1238
	Melting point	~ 115		°C	SK Method
Film Properties*	Dart drop impact		600	g	ASTM D1709
	Haze		1.5	%	ASTM D1003
	Initial tear strength	MD	100	kg/cm	ASTM D1004
		TD	90	kg/cm	ASTM D1004
	Elmendorf tear strength	MD	16	g/um	ASTM D1922
		TD	25	g/um	ASTM D1922
	Tensile strength at break	MD	495	kg/cm ²	ASTM D882
		TD	500	kg/cm ²	ASTM D882
	Elongation at break	MD	600	%	ASTM D882
		TD	700	%	ASTM D882
	Tensile strength at yield	MD	95	kg/cm ²	ASTM D882
		TD	90	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