Smart™ 151S

Introduction

Smart™ 151S, metallocene LLDPE, is an **ethylene-octene copolymer** produced via Nexlene™ technology. Smart™ 151S performs well in a wide range of various food & non-food packaging films with excellent sealing property, impact strength, and processibility.

Typical Performance:

- Excellent low seal initiation temperature and hot tack strength
- Superior impact strength and transparency
- Outstanding bubble stability & processability

Compiles with:

- US. FDA 21 CFR 177.1520
- EU. No 10/2011

Additives:

- Antiblock: 2000 ppm
- Slip: 1000 ppm

Properties

			Typical Values	Unit	Test Method
Resin Properties	Density		0.916	g/cm^3	ASTM D792
	Melt index (2.16 kg @190^{o}C)		1.0	g/10min	ASTM D1238
	Melting temperature		113	^{o}C	SK Method
	Vicat softening temperature		103	^{o}C	ASTM D1525
Film Properties	Film thickness - tested		40	μm	ASTM D374
	Dart impact strength		900	g	ASTM D1709A
	Haze		11	%	ASTM D1003
	Seal initiation temperature		104	^{o}C	SK Method[1]
	Elmendorf tear strength	MD	12	g/μm	ASTM D1922
		TD	22	g/μm	ASTM D1922
	Tensile strength at break	MD	520	kg/cm^2	ASTM D882
		TD	550	kg/cm^2	ASTM D882

Elongation at break	MD	580	%	ASTM D882
	TD	650	%	ASTM D882
Secant modulus (1%)	MD	1460	kg/cm^2	ASTM D882
	TD	1720	kg/cm^2	ASTM D882

Extrusion Condition

- Screw size: 35 mm
- Die diameter: 100 mm
- Die gap: 1 mm
- Blow-up ratio: 2.1
- Melt temperature: 160-180 ^oC

[1] Temperature at which 0.4 kg/25.4 mm heat seal strength is achieved

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

For additional sales, order and technical assistance

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