



Smart[™] 151

Introduction

Smart[™] 151, metallocene LLDPE, is an **ethylene-octene copolymer** produced via Nexlene [™] technology. Smart[™] 151 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: No

• Slip: No

Properties

			Typical Values	Unit	Test Method
Resin	Density		0.915	g/cm ³	ASTM D792
Properties	Melt index (2.16 kg @190°C)		1.0	g/10min	ASTM D1238
	Melting temperature		113	°C	SK Method
	Vicat softening temperature		102	°C	ASTM D1525
Film	Film thickness - tested		40	μm	ASTM D374
Properties	Dart impact strength		>1000	g	ASTM D1709A
	Haze		10	%	ASTM D1003
	Seal initiation temperature		104	°C	SK Method ¹
	Elmendorf tear strength	MD	12	g/µm	ASTM D1922
		TD	22	g/µm	ASTM D1922
	Tensile strength at break	MD	530	kg/cm ²	ASTM D882
		TD	550	kg/cm ²	ASTM D882





Technical Information

Elongation at break	MD	600	%	ASTM D882	
	TD	650	%	ASTM D882	
Secant modulus (1%)	MD	1430	kg/cm ²	ASTM D882	
	TD	1630	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 °C

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

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