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Technical Information

Smart™ 153

Introduction

Smart™ 153, metallocene LLDPE, is an **ethylene-octene copolymer** produced via Nexlene™ technology. Smart™ 153 performs well in a wide range of general purpose LLDPE cast film applications.

Typical Performance:

- Excellent impact strength and transparency
- Superior processability and neck-in phenomenon

Compiles with:

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

Additives:

- Antiblock: No
- Slip: No

Properties

			Typical Values	Unit	Test Method
Resin Properties	Density		0.915	g/cm^3	ASTM D792
	Melt index (2.16 kg @190^{o}C)		3.0	g/10min	ASTM D1238
	Melting temperature		113	^{o}C	SK Method
	Vicat softening temperature		101	^{o}C	ASTM D1525
Film Properties	Film thickness - tested		25	μm	ASTM D374
	Dart impact strength		450	g	ASTM D1709A
	Haze		1.3	%	ASTM D1003
	Seal initiation temperature		102	^{o}C	SK Method[1]
	Elmendorf tear strength	MD	10	g/μm	ASTM D1922
		TD	21	g/μm	ASTM D1922
	Tensile strength at break	MD	510	kg/cm^2	ASTM D882
		TD	400	kg/cm^2	ASTM D882

Revised: Aug. 5th, 2016

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Elongation at break	MD	410	%	ASTM D882
	TD	640	%	ASTM D882
Secant modulus (1%)	MD	1050	kg/cm^2	ASTM D882
	TD	1140	kg/cm^2	ASTM D882

Extrusion Condition

- Screw size: 30 mm
- Screw speed: 30 rpm
- Die gap: 1 mm
- Melt temperature: 230°C

[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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Revised: Aug. 5th, 2016