

Smart™ 154

Introduction

Smart™ 154, metallocene LLDPE, is an **ethylene-octene copolymer** produced via Nexlene™ technology. Smart™ 154 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°C)	3.5	g/10min	ASTM D1238	
	Melting temperature	113	°C	SK Method	
	Vicat softening temperature	100	°C	ASTM D1525	
Film Properties	Film thickness - tested	25	µm	ASTM D374	
	Dart impact strength	400	g	ASTM D1709A	
	Haze	1.3	%	ASTM D1003	
	Seal initiation temperature	102	°C	SK Method ¹	
	Elmendorf tear strength	MD	10	g/µm	ASTM D1922
		TD	20	g/µm	ASTM D1922
	Tensile strength at break	MD	490	kg/cm ²	ASTM D882
TD		390	kg/cm ²	ASTM D882	

Technical Information

Elongation at break	MD	440	%	ASTM D882
	TD	650	%	ASTM D882
Secant modulus (1%)	MD	1070	kg/cm ²	ASTM D882
	TD	1120	kg/cm ²	ASTM D882

Extrusion Condition	<ul style="list-style-type: none"> • 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

Head office SK Global Chemical Co.,LTD
26 Jong-ro, Jongno-gu,
Seoul, Korea
TEL +82-2-2121-5052

TS&D SK innovation Global Technology
325 Exporo, Yueseong-gu,
Daejeon, Korea
TEL +82-42-609-8623