



Technical Information

Supreme™ 001 Polyolefin Plastomer

Introduction

Supreme[™] 001, Polyolefin Plastomer (POP), is an **ethylene-octene copolymer** produced via Nexlene[™] technology. Supreme[™] 001 performs well in a wide range of various food & non-food packaging films with excellent sealing property and impact strength.

Typical Performance:

- Excellent low seal initiation temperature and hot tack strength
- Superior impact strength and transparency

Complies with:

US. FDA 21 CFR 177.1520

• EU. No 10/2011

Additives:

Antiblock: No

• Slip: No

Properties

			Typical Values	Unit	Test Method		
Resin	Density		0.900	g/cm ³	ASTM D792		
Properties	Melt index (2.16 kg @190°C)		1.0	g/10min	ASTM D1238		
	Melting temperature		98	°C	SK Method		
	Vicat softening temperature		83	°C	ASTM D1525		
Film	Film thickness - tested		40	μm	ASTM D374		
Properties	Dart impact strength		>1000	g	ASTM D1709A		
	Haze		2.7	%	ASTM D1003		
	Seal initiation temperature ¹		76	°C	SK Method ¹		
	Elmendorf tear strength	MD	10	g/µm	ASTM D1922		
		TD	17	g/µm	ASTM D1922		
	Tensile strength at break	MD	500	kg/cm ²	ASTM D882		
		TD	550	kg/cm ²	ASTM D882		







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Elongation at break	MD	620	%	ASTM D882
	TD	670	%	ASTM D882

Extrusion Condition

Screw size: 55 mm Die diameter: 180 mm

Die gap: 1.8 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

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