





Technical Information

Supreme™ 051 Polyolefin Plastomer

Introduction

Supreme[™] 051, Polyolefin Plastomer (POP), is an **ethylene-octene copolymer** produced via Nexlene[™] technology. Supreme[™] 051 performs well in a wide range of various food & non-food packaging films and especially strech hood applications with excellent sealing property and impact strength.

Typical Performance:

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

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		0.905	g/cm ³	ASTM D792
Properties	Melt index (2.16 kg @190°C)		0.8	g/10min	ASTM D1238
	Melting temperature		102	°C	SK Method
	Vicat softening temperature		88	°C	ASTM D1525
Film	Film thickness - tested		40	μm	ASTM D374
Properties	Dart impact strength		>1000	g	ASTM D1709A
	Haze		5	%	ASTM D1003
	Seal initiation temperature		88	°C	SK Method ¹
	Elmendorf tear strength	MD	11	g/µm	ASTM D1922
		TD	17	g/µm	ASTM D1922
	Tensile strength at break	MD	490	kg/cm ²	ASTM D882
		TD	520	kg/cm ²	ASTM D882

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Elongation at break	MD	530	%	ASTM D882	
	TD	600	%	ASTM D882	
Secant modulus (1%)	MD	660	kg/cm ²	ASTM D882	
	TD	730	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

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