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 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 TD	660 730	kg/cm ² kg/cm ²	ASTM D882 ASTM D882
Extrusion	Screw size: 35				
Condition	Die diameter: 100 mm				
	• Die gap: 1 mm				
	 Blow-up ratio: 2 	2.1			
	 Melt temperature: 160-180 °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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