

Technical Information

# Supreme™ 024

## Polyolefin Plastomer

### Introduction

Supreme™ 024, Polyolefin Plastomer (POP), is an **ethylene-octene copolymer** produced via Nexlene™ technology. Supreme™ 024 performs well in a wide range of various cast film applications with excellent sealing property, cling force, and impact strength.

Typical Performance:

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

Compiles with:

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

Additives:

- Antiblock : No
- Slip : No

### Properties

		Typical Values	Unit	Test Method	
<b>Resin Properties</b>	Density	0.902	g/cm <sup>3</sup>	ASTM D792	
	Melt index (2.16 kg @190°C)	3.5	g/10min	ASTM D1238	
	Melting temperature	98	°C	SK Method	
	Vicat softening temperature	83	°C	ASTM D1525	
<b>Film Properties</b>	Film thickness - tested	25	µm	ASTM D374	
	Dart impact strength	850	g	ASTM D1709A	
	Haze	0.5	%	ASTM D1003	
	Seal initiation temperature	84	°C	SK Method <sup>1</sup>	
	Elmendorf tear strength	MD	9	g/µm	ASTM D1922
		TD	22	g/µm	ASTM D1922
	Tensile strength at break	MD	480	kg/cm <sup>2</sup>	ASTM D882
		TD	400	kg/cm <sup>2</sup>	ASTM D882

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Elongation at break	MD	400	%	ASTM D882
	TD	740	%	ASTM D882
Secant modulus (1%)	MD	680	kg/cm <sup>2</sup>	ASTM D882
	TD	780	kg/cm <sup>2</sup>	ASTM D882

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

<sup>1</sup> 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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