

# Supreme™ 028

## Polyolefin Plastomer

### Introduction

Supreme™ 028, Polyolefin Plastomer (POP), is an **ethylene-octene copolymer** produced via Nexlene™ technology. Supreme™ 028 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

Additives:

- Antiblock: No
- Slip: No

### Properties

		Nominal Value (English)	Nominal Value (SI)	Test Method	
<b>Resin Properties</b>	Density	0.902 g/cm <sup>3</sup>	0.902 g/cm <sup>3</sup>	ASTM D792	
	Melt index (2.16 kg @190°C)	7.5 g/10min	7.5 g/10min	ASTM D1238	
	Melting temperature	204.8 °F	96 °C	SK Method	
	Vicat softening temperature	176 °F	80 °C	ASTM D1525	
<b>Film Properties</b>	Film thickness – tested	40 µm	40 µm	ASTM D374	
	Dart impact strength	750 g	750 g	ASTM D1709A	
	Haze	0.6 %	0.6 %	ASTM D1003	
	Seal initiation temperature	188.6 °F	87 °C	SK Method <sup>1</sup>	
	Elmendorf tear strength	MD	13 g/µm	13 g/µm	ASTM D1922
		TD	18 g/µm	18 g/µm	ASTM D1922

*Technical Information*

Tensile strength at break	MD	5400 psi	37.3 MPa	ASTM D882
	TD	6540 psi	45.1 MPa	ASTM D882
Elongation at break	MD	590 %	590 %	ASTM D882
	TD	740 %	740 %	ASTM D882

<b>Extrusion Condition</b>	•	Screw size: 40 mm
	•	Screw speed: 30 rpm
	•	Die gap: 1 mm
	•	Melt temperature: 210~230°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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