





Technical Information

Supreme™ 004 Polyolefin Plastomer

Introduction

Supreme™ 004, Polyolefin Plastomer (POP), is an **ethylene-octene copolymer** produced via Nexlene™ technology. Supreme™ 004 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

Additives:

Antiblock : No

Slip : No

Properties

			Nominal Value (English)	Nominal Value (SI)	Test Method
Resin Properties	Density		0.900 g/cm ³	0.900 g/cm ³	ASTM D792
	Melt index (2.16 kg @190°C))	3.5 g/10min	3.5 g/10min	ASTM D1238
	Melting temperature		204.8°F	96 °C	SK Method
	Vicat softening temperature		177.8 °F	81 °C	ASTM D1525
Film Properties	Film thickness – tested		40 μm	40 μm	ASTM D374
	Dart impact strength	•••••	> 1000 g	> 1000 g	ASTM D1709A
	Haze		0.5 %	0.5 %	ASTM D1003
	Seal initiation temperature		179.6 °F	82 °C	SK Method ¹
	Elmendorf tear strength	MD	15 g/µm	15 g/µm	ASTM D1922
		TD	20 g/µm	20 g/μm	ASTM D1922

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	Tensile strength at break	MD	7250 psi	50.0 MPa	ASTM D882
		TD	6970 psi	48.1 MPa	ASTM D882
	Elongation at break		490 %	490 %	ASTM D882
		TD	700 %	700 %	ASTM D882
	Secant modulus (1%)	MD	8530 psi	58.8 MPa	ASTM D882
		TD	9960 psi	68.6 MPa	ASTM D882
Extrusion	Screw size: Screw specification				
Condition	Screw speeDie gap: 1 rMelt tempe	•			

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