

# Exxtra™ Seal POP 4505

## Ethylene-based Plastomer

### Product Description

Exxtra™ Seal POP 4505 resin is an ethylene-based butene plastomer produced using ExxonMobil Chemical's EXXPOL® Catalyst Technology. It can be used for both monolayer and multilayer coextruded cast film applications requiring excellent heat sealing performance. TnPP is not intentionally added to Exxtra™ Seal POP 4505 resin.

### General

Availability <sup>1</sup>	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ Cast Film	▪ Food Packaging Seal Layers	▪ Lamination Film
Form(s)	▪ Pellets		
Revision Date	▪ 01/01/2017		

### Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.905 g/cm <sup>3</sup>	0.905 g/cm <sup>3</sup>	ASTM D1505
Melt Index <sup>2</sup> (190°C/2.16 kg)	4.5 g/10 min	4.5 g/10 min	ASTM D1238
Peak Melting Temperature	207 °F	97 °C	ExxonMobil Method

### Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	178 °F	81.3 °C	ExxonMobil Method
Crystallization Peak, T <sub>c</sub>	181 °F	83 °C	ExxonMobil Method

### Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	740 psi	5.1 MPa	ASTM D882
Tensile Strength at Yield TD	530 psi	3.7 MPa	ASTM D882
Tensile Strength at Break MD	6100 psi	42 MPa	ASTM D882
Tensile Strength at Break TD	4300 psi	30 MPa	ASTM D882
Elongation at Break MD	550 %	550 %	ASTM D882
Elongation at Break TD	760 %	760 %	ASTM D882
Secant Modulus MD	11000 psi	76 MPa	ASTM D882
Secant Modulus TD	12000 psi	85 MPa	ASTM D882
Dart Drop Impact	110 g	110 g	ASTM D1709A
Elmendorf Tear Strength MD	60 g	60 g	ASTM D1922
Elmendorf Tear Strength TD	210 g	210 g	ASTM D1922
Puncture Force	10 lbf	44 N	ExxonMobil Method
Puncture Energy	38 in·lb	4.2 J	ExxonMobil Method

### Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss	93	93	ASTM D2457
Haze	0.5 %	0.5 %	ASTM D1003

### Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Tris(nonylphenyl)phosphite (TNPP) CAS# 26523-78-4 is not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for its presence, based on product composition knowledge this substance is not expected to be present. However, the fact that this substance is not intentionally used by ExxonMobil in this product does not exclude that trace levels of this substance may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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### Processing Statement

Film (1 mil/ 25.4 micron) made from Exxtra™ Seal POP 4505 on a 3.5 inch cast film line with a 5 inch melt curtain, 80°F (27°C) chill roll temperature at a 500 ft/min take-off speed and a melt temperature between 510-530°F (266-277°C).

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

<sup>2</sup> Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

### For additional technical, sales and order assistance: [Contact Us](#)

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