Product Datasheet

ExxonMobil Signature Polymers

Exxtra™ Seal m 2012 Series

Metallocene Polyethylene

Product Description

Exxtra™ Seal m 2012 Series are ethylene 1-hexene copolymer resins. Films made from these resins have outstanding toughness, impact strengthand puncture. These superior strength properties, along with excellent heat sealing and hot tack performance, make this a very versatile packaging film resin. TnPP is not intentionally added to Exxtra™ Seal m 2012 resin.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Exxtra™ Seal m 2012.MA: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes ▪ Exxtra™ Seal m 2012.MK: Antiblock: 5000 ppm; Slip: 1000 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes		
Applications	▪ Bag in Box ▪ Barrier Food Packaging ▪ Blown Film ▪ Food Packaging	▪ Form Fill And Seal Packaging ▪ Freezer Film ▪ Heavy Duty Bags ▪ Ice Bags	▪ Lamination Film ▪ Multilayer Packaging Film ▪ Stand Up Pouches
Revision Date	▪ 06/03/2020		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density / Specific Gravity	0.912	g/cm³	0.912	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Peak Melting Temperature	237	°F	114	°C	ExxonMobil Method

Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	205	°F	96.0	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	910	psi	6.3	MPa	ASTM D882
Tensile Strength at Yield TD	860	psi	6.0	MPa	ASTM D882
Tensile Strength at Break MD	10000	psi	70	MPa	ASTM D882
Tensile Strength at Break TD	8200	psi	60	MPa	ASTM D882
Elongation at Break MD	560	%	560	%	ASTM D882
Elongation at Break TD	610	%	610	%	ASTM D882
Secant Modulus MD - 1% Secant	15000	psi	100	MPa	ASTM D882
Secant Modulus TD - 1% Secant	15000	psi	100	MPa	ASTM D882
Dart Drop Impact	690	g	690	g	ASTM D1709A
Elmendorf Tear Strength MD	240	g	240	g	ASTM D1922
Elmendorf Tear Strength TD	300	g	300	g	ASTM D1922
Puncture Force	13	lbf	57	N	ExxonMobil Method
Puncture Energy	47	in·lb	5.3	J	ExxonMobil Method

Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Gloss (45°)	33		33		ASTM D2457
Haze	21	%	21	%	ASTM D1003

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

ExxonMobil

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Legal Statement

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

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

Tris(nonylphenol)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.

Processing Statement

Film (1 mil/25.4 micron) made from Exxtra™ Seal m 2012.MA on a 2.6 inch (65mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of400-420°F (204-216°C), a 60 mil (1.5 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).

Notes

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

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

For additional technical, sales and order assistance: Contact Us

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