

Exceed™ 2012RA

Performance Polymer

Product Description

Exceed™ 2012RA is an ethylene 1-hexene copolymer resin. Films that incorporate Exceed™ 2012RA can enable outstanding toughness, impact strength and puncture. These superior strength properties, along with excellent heat and seal and hot tack performance, highlight a very versatile packaging film resin. Fluoropolymers, or fluorine-containing compounds, and TNPP are not intentionally added to Exceed™ 2012RA.

General

Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America
Additive	<ul style="list-style-type: none"> Antiblock: No Slip: No 	<ul style="list-style-type: none"> Thermal Stabilizer: Yes Alternative Processing Aid: Yes 	
Applications	<ul style="list-style-type: none"> Bag in Box Barrier Food Packaging Blown Film Food Packaging 	<ul style="list-style-type: none"> Form Fill And Seal Packaging Freezer Film Heavy Duty Bags Ice Bags 	<ul style="list-style-type: none"> Lamination Film Multilayer Packaging Film Stand Up Pouches
Revision Date	<ul style="list-style-type: none"> 04/19/2024 		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.912 g/cm ³	0.912 g/cm ³	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

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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.

Fluoropolymers, or fluorine-containing compounds, and tris(nonylphenol) phosphite (TNPP) CAS# 26523-78-4 are not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for their presence, based on product composition knowledge these substances are not expected to be present. However, the fact that these substances are not intentionally used by ExxonMobil in this product does not exclude that trace levels of these substances 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 Exceed™ 2012MA on a 2.6 inch (65mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 400-420°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.

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