

Exceed™ S 9243ML

Performance Polymer

Product Description

Exceed™ S 9243ML is a performance linear low density polyethylene 1-hexene copolymer designed to deliver exceptionally high stiffness and toughness while being easy to process on blown film lines. The combination of high dart drop impact at such high stiffness makes the resin well-suited for stiff-tough functional layers that can help improve package durability while potentially helping converters simplify formulations by reducing the need to blend HDPE for stiffness or LDPE for processing. TnPP is not intentionally added to Exceed™ S 9243ML.

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; Processing Aid: Yes; Thermal Stabilizer: Yes 		
Applications	<ul style="list-style-type: none"> Air Pillows Blown Film Food Packaging 	<ul style="list-style-type: none"> Lamination Film Laminated Full-PE Packaging Liquid Packaging 	<ul style="list-style-type: none"> Medium and heavy duty sacks Non-Laminated Coex Film Silo Bags
Form(s)	<ul style="list-style-type: none"> Pellets 		
Revision Date	<ul style="list-style-type: none"> 03/29/2022 		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.926 g/cm ³	0.926 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.85 g/10 min	0.85 g/10 min	ASTM D1238
Peak Melting Temperature	257°F	125°C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1700 psi	12 MPa	ASTM D882
Tensile Strength at Yield TD	2000 psi	14 MPa	ASTM D882
Tensile Strength at Break MD	11,000 psi	76 MPa	ASTM D882
Tensile Strength at Break TD	8000 psi	56 MPa	ASTM D882
Elongation at Break MD	460 %	460 %	ASTM D882
Elongation at Break TD	690 %	690 %	ASTM D882
Secant Modulus MD - 1% Secant	42,000 psi	290 MPa	ASTM D882
Secant Modulus TD - 1% Secant	53,000 psi	370 MPa	ASTM D882
Dart Drop Impact	480 g	480 g	ASTM D1709
Elmendorf Tear Strength MD	210 g	210 g	ASTM D1922
Elmendorf Tear Strength TD	540 g	540 g	ASTM D1922
Puncture Force	11 lbf	47 N	ExxonMobil Method
Puncture Energy	28 in-lb	3.2 J	ExxonMobil Method

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Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	45	45	ASTM D2457
Haze	13 %	13 %	ASTM D1003

Legal Statement

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.

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

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

Processing Statement

Film (1 mil / 25.4 micron) made from Exceed™ S 9243ML on a 3.5 inch (90 mm) blown film line with a 2.5:1 blow-up ratio, a target melt temperature of 400°F (204°C), a 60 mil (1.5 mm) die gap at a rate of 15 lbs/hr/in die circumference.

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: www.exxonmobilchemical.com/ContactUs

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