

Exact™ 3237

Ethylene-based Plastomer Resin

Product Description

Exact™ 3237 is an ethylene 1-hexene plastomer designed for use in both monolayer and multilayer film applications. Films made from Exact™ 3237 have a much lower seal initiation temperature than the density suggests along with high toughness, high stiffness, and low COF on hot metal surfaces. The overall combination of properties contributes to enhanced packaging line speeds. TnPP is not intentionally added to Exact™ 3237.

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: 5000 ppm Slip: 1000 ppm 	<ul style="list-style-type: none"> Processing Aid: Yes Thermal Stabilizer: Yes 	
Applications	<ul style="list-style-type: none"> Barrier Food Packaging Blown Film 	<ul style="list-style-type: none"> Food Packaging Freezer Film 	<ul style="list-style-type: none"> Lamination Film Multilayer Packaging Film
Form(s)	<ul style="list-style-type: none"> Pellets 		
Revision Date	<ul style="list-style-type: none"> 10/15/2020 		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.908 g/cm ³	0.908 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	194 °F	90 °C	ASTM D1525

Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	860 psi	5.9 MPa	ASTM D882
Tensile Strength at Yield TD	790 psi	5.4 MPa	ASTM D882
Tensile Strength at Break MD	8600 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	8200 psi	60 MPa	ASTM D882
Elongation at Break MD	480 %	480 %	ASTM D882
Elongation at Break TD	570 %	570 %	ASTM D882
Secant Modulus MD - 1% Secant	13000 psi	87 MPa	ASTM D882
Secant Modulus TD - 1% Secant	13000 psi	90 MPa	ASTM D882
Dart Drop Impact	800 g	800 g	ASTM D1709A
Elmendorf Tear Strength MD	210 g	210 g	ASTM D1922
Elmendorf Tear Strength TD	280 g	280 g	ASTM D1922
Puncture Force	13 lbf	57 N	ExxonMobil Method
Puncture Energy	56 in·lb	6.3 J	ExxonMobil Method

Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	35	35	ASTM D2457
Haze	18 %	18 %	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 is not intended for use in medical applications and should not be used in any such applications.

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

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Film (1 mil/25.4 micron) made from Exact™ 3237 resin 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 (1.52 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: www.exxonmobilchemical.com/ContactUs

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