

Product Datasheet



Exact™ 4151A Blown

Ethylene-based Plastomer Resin

Product Description

Exact™ 4151A is an ethylene-based hexene plastomer produced using ExxonMobil Chemical's EXXPOL® Catalyst Technology. Exact™ 4151A is designed for both monolayer and multilayer coextruded cast and blown film applications requiring low sealing temperatures, high oxygen transmission and high toughness. Typical applications include seal layers for lamination films used in meat, poultry and produce packaging. TnPP is not intentionally added to Exact™ 4151A resin.

General

Availability ¹	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Blown Film	▪ Lamination Film	
Form(s)	▪ Pellets		
Revision Date	▪ 10/23/2019		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.895 g/cm ³	0.895 g/cm ³	ASTM D1505
Melt Index ² (190°C/2.16 kg)	2.2 g/10 min	2.2 g/10 min	ASTM D1238
Peak Melting Temperature	191 °F	88 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	168 °F	75.6 °C	ExxonMobil Method
Crystallization Peak, T _c	158 °F	70 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	560 psi	3.9 MPa	ASTM D882
Tensile Strength at Yield TD	530 psi	3.7 MPa	ASTM D882
Tensile Strength at Break MD	9900 psi	70 MPa	ASTM D882
Tensile Strength at Break TD	10000 psi	70 MPa	ASTM D882
Elongation at Break MD	520 %	520 %	ASTM D882
Elongation at Break TD	650 %	650 %	ASTM D882
Secant Modulus MD	7800 psi	54 MPa	ASTM D882
Secant Modulus TD	8500 psi	59 MPa	ASTM D882
Dart Drop Impact	> 1300 g	> 1300 g	ASTM D1709A
Elmendorf Tear Strength MD	240 g	240 g	ASTM D1922
Elmendorf Tear Strength TD	330 g	330 g	ASTM D1922
Puncture Force	17 lbf	75 N	ExxonMobil Method
Puncture Energy	61 in-lb	6.9 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	59	59	ASTM D2457
Haze	5.7 %	5.7 %	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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**Exact™ 4151A Blown**
Ethylene-based Plastomer Resin**Processing Statement**

Film (1.25 mil / 32 micron) made on a 2.5 inch blown film line having a 6 inch die with a 60 mil die gap at a 2.5:1 blow-up ratio and a melt temperature of 370-390°F (188-199°C).

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.

² 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: www.exxonmobilchemical.com/ContactUs

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