

Exact™ 4056

Ethylene-based Plastomer Resin

Product Description

Exact 4056 is an ethylene-based hexene plastomer produced by ExxonMobil Chemical's EXXPOL® Catalyst Technology. This resin can be used in blends with polyolefins to improve the heat sealing performance and toughness in film applications. It is designed for use in dispersible film and batch inclusion bag applications.

General

Availability ¹	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Blend Partner	▪ Blown Film	
Form(s)	▪ Pellets		
Revision Date	▪ 01/01/2017		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.883 g/cm ³	0.883 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	164 °F	73 °C	ExxonMobil Method

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	134 °F	56.6 °C	ExxonMobil Method
Crystallization Peak, T _c	131 °F	55 °C	ExxonMobil Method

Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	380 psi	2.6 MPa	ASTM D882
Tensile Strength at Yield TD	300 psi	2.1 MPa	ASTM D882
Tensile Strength at Break MD	9400 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	8300 psi	60 MPa	ASTM D882
Elongation at Break MD	490 %	490 %	ASTM D882
Elongation at Break TD	640 %	640 %	ASTM D882
Secant Modulus MD	4300 psi	30 MPa	ASTM D882
Secant Modulus TD	4800 psi	33 MPa	ASTM D882
Dart Drop Impact	620 g	620 g	ASTM D1709A
Elmendorf Tear Strength MD	90 g	90 g	ASTM D1922
Elmendorf Tear Strength TD	250 g	250 g	ASTM D1922
Puncture Force	17 lbf	74 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°)	79	79	ASTM D2457
Haze	2.5 %	2.5 %	ASTM D1003

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.

Processing Statement

Film (1.25 mil/31.7 micron) made from Exact 4056 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 melt temperature of 360-380°F (182-193°C).

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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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