

EXACT™ 4011

Plastomer for Blown Film

Description

EXACT 4011 is an ethylene-based butene plastomer produced using ExxonMobil Chemical's EXXPOL® Technology.

This resin is designed primarily for use in blends with polyolefins to improve the heat sealing performance and toughness in film applications.

Key Performance Attributes

- Very low heat seal initiation temperature
- Good toughness and impact strength
- Low modulus

Additive Package	Antiblock	Slip	Thermal Stabilizer
Exact 4011	No	No	Yes

Resin Properties	Test Based On	Typical Value / Units	
Melt Index	ExxonMobil Method	2.2 g/10 min	
Density	ExxonMobil Method	0.888 g/cm ³	
Peak Melting Temperature	ExxonMobil Method	69°C	156°F
Crystallization Point	ExxonMobil Method	54°C	129°F
Vicat Softening Point	ASTM D-1525	56°C	133°F

Film Properties¹ (1.25 mil (32 micron) film)

Haze		ASTM D-1003	1.6%	
Gloss 45°		ASTM D-2457	85	
1% Secant Modulus	MD	ASTM D-882	34.1 MPa	4900 psi
	TD		38.2 MPa	5530 psi
Yield Strength @ 2% Offset	MD	ASTM D-882	3.5 MPa	500 psi
	TD		3.1 MPa	450 psi
Elongation @ Yield	MD	ASTM D-882	12.3%	
	TD		10.6%	
Tensile Strength	MD	ASTM D-882	57.1 MPa	8280 psi
	TD		49.6 MPa	7190 psi
Elongation @ Break	MD	ASTM D-882	530%	
	TD		760%	
Tear Resistance	MD	ASTM D-1922	50 g	
	TD		130 g	
Dart Drop Impact, F ₅₀		ASTM D-1709(A)	140 g	

1. Film made from Exact 4011 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 357-369°F (181-187°C).

EXACT 4011 complies with FDA regulation 21 CFR 177.1520 "Olefin polymers" paragraphs (c)3.6, provided that it is used only as a blend component with specific regulated FDA materials to make films no thicker than 4 mils. Contact your ExxonMobil representative for additional information.

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