

Exact™ 3027

Ethylene-based Plastomer Resin

Product Description

EXACT 3027 is an ethylene-based butene plastomer produced using ExxonMobil Chemical's EXXPOL® Catalyst Technology. EXACT 3027 is designed for both monolayer and multilayer coextruded cast film applications requiring excellent toughness and heat sealing performance. Typical applications include seal layers for meat, poultry, and cheese packaging, lamination films, heavy duty bags, and cereal box liner packaging.

General						
Availability ¹	Latin AmericaAntiblock: NoSlip: No		 North America 	orth America		
Additive			Slip: No			
Applications	 Cast Film 	 Heavy Duty Bags 				
Form(s)	 Pellets 					
Revision Date	• 03/01/2010					
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based Or	
Density	0.900	g/cm³	0.900	g/cm³	ASTM D1505	
Melt Index ² (190°C/2.16 kg)	3.5	g/10 min	3.5	g/10 min	ASTM D1238	
Peak Melting Temperature	196	°F	91	°C	ExxonMobil Method	
Thermal	Typical Value	(English)	Typical Value	· (SI)	Test Based Or	
Vicat Softening Temperature	176	°F	80.0	°C	ExxonMobil Method	
Crystallization Peak, Tc	165	°F	74	· °C	ExxonMobil Method	
Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based Or	
Tensile Strength at Yield MD	910	psi	6.2	MPa	ASTM D882	
Tensile Strength at Yield TD	630	psi	4.4	MPa .	ASTM D882	
Tensile Strength at Break MD	8300	psi	60	MPa	ASTM D882	
Tensile Strength at Break TD	5200	psi	36	MPa	ASTM D882	
Elongation at Yield MD	10	%	10	%	ASTM D882	
Elongation at Yield TD	8	%	8	%	ASTM D882	
Elongation at Break MD	490	%	490	%	ASTM D882	
Elongation at Break TD	810	%	810	%	ASTM D882	
Secant Modulus MD - 1% Secant	9700	psi	67	MPa	ASTM D882	
Secant Modulus TD - 1% Secant	11000	psi	79	MPa	ASTM D882	
Dart Drop Impact	120	9	120	g	ASTM D1709	
Elmendorf Tear Strength MD	50	9	50	g	ASTM D1922	
Elmendorf Tear Strength TD	230	g	230	g	ASTM D1922	
Puncture Force	14	lbf	62	N	ExxonMobil Method	
Puncture Energy	57	in·lb	6.5	J	ExxonMobil Method	
Optical Properties	Typical Value	(English)	Typical Value	(SI)	Test Based Or	
Gloss (45°)	94		94	•	ASTM D2457	
Haze	0.4	%	0.4	. %	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 mil / 25.4 micron) made from Exact 3027 on a 3.5 inch cast film line with a 5 inch melt curtain, 78°F (26°C) chill roll temperature at a 500 ft/min take-off speed and a melt temperature between 532-550°F (277-288°C).

Effective Date: 03/01/2010 ExxonMobil Page: 1 of 2



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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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