

Exceed™ 3527PA

Metallocene Polyethylene Resin

Product Description

Exceed 3527PA is a metallocene ethylene-hexene copolymer. Films made of Exceed 3527PA have high modulus and outstanding tensile, impact and puncture resistance properties. These superior properties together with excellent drawability make this a versatile polymer for mono layer and multi layer cast stretch film applications.

General

Availability ¹	<ul style="list-style-type: none"> Asia Pacific Latin America North America
Additive	<ul style="list-style-type: none"> Antiblock: No Slip: No Processing Aid: No Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> Artificial grass Cast Film Cast Stretch Film Diaper Backsheet Hygiene film Overwrap Film Personal Care
Form(s)	<ul style="list-style-type: none"> Pellets
Revision Date	<ul style="list-style-type: none"> 03/01/2010

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.927 g/cm ³	0.927 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Peak Melting Temperature	250 °F	121 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1500 psi	10 MPa	ASTM D882
Tensile Strength at Yield TD	1400 psi	9.6 MPa	ASTM D882
Tensile Strength at Break MD	8900 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	5900 psi	41 MPa	ASTM D882
Elongation at Break MD	530 %	530 %	ASTM D882
Elongation at Break TD	750 %	750 %	ASTM D882
Secant Modulus MD - 1% Secant	27000 psi	190 MPa	ASTM D882
Secant Modulus TD - 1% Secant	30000 psi	200 MPa	ASTM D882
Dart Drop Impact	60 g	60 g	ASTM D1709A
Elmendorf Tear Strength MD	70 g	70 g	ASTM D1922
Elmendorf Tear Strength TD	400 g	400 g	ASTM D1922
Puncture Force	10 lbf	45 N	ExxonMobil Method
Puncture Energy	23 in·lb	2.6 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	87	87	ASTM D2457
Haze	2.8 %	2.8 %	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 (0.8 mil / 20 micron) made from Exceed 3527PA on a Black Clawson 3.5 inch cast line at a 5.5 inch melt curtain length, 520-580°F melt temperature, 80°F chill roll temperature and 750 fpm line speed. Films were aged at 140°F for 48 hours before lab aging and testing.

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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.

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