

Exceed™ 1018HA

Metalocene Polyethylene Resin

Product Description

Exceed 1018HA is a metallocene ethylene-hexene copolymer. Films made from Exceed 1018HA have outstanding tensile, impact strength and puncture. These superior strength properties, along with excellent drawability, makes this a very versatile packaging film resin.

General

Availability ¹	<ul style="list-style-type: none"> Latin America North America
Additive	<ul style="list-style-type: none"> Antiblock: No Slip: No Processing Aid: Yes Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> Agricultural Film Bag in Box Barrier Food Packaging Blown Film Blown Stretch Film Bread Bags Food packaging Form Fill And Seal Packaging Freezer Film General Packaging Heavy Duty Bags Lamination Film Multilayer Packaging Film Overwrap Film Packaging Films Premium Trash Bags Stand Up Pouches Trash Bags
Revision Date	<ul style="list-style-type: none"> 12/01/2012

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.918 g/cm ³	0.918 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Peak Melting Temperature	245 °F	118 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1400 psi	9.5 MPa	ASTM D882
Tensile Strength at Yield TD	1400 psi	9.7 MPa	ASTM D882
Tensile Strength at Break MD	8500 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	7700 psi	50 MPa	ASTM D882
Elongation at Break MD	480 %	480 %	ASTM D882
Elongation at Break TD	640 %	640 %	ASTM D882
Secant Modulus MD - 1% Secant	27000 psi	180 MPa	ASTM D882
Secant Modulus TD - 1% Secant	29000 psi	200 MPa	ASTM D882
Dart Drop Impact	590 g	590 g	ASTM D1709A
Elmendorf Tear Strength MD	250 g	250 g	ASTM D1922
Elmendorf Tear Strength TD	430 g	430 g	ASTM D1922
Puncture Force	11 lbf	50 N	ExxonMobil Method
Puncture Energy	35 in-lb	3.9 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	28	28	ASTM D2457
Haze	29 %	29 %	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 Exceed 1018HA on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 404°F (207°C), a 60 mil (1.52 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).

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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.

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