

Exceed™ 2018HA

Metallocene Polyethylene Resin

Product Description

Exceed 2018HA is a metallocene catalyzed ethylene-hexene copolymer. Films made from Exceed 2018HA have outstanding tensile, impact strength, and puncture. These superior strength properties, along with excellent drawability, makes this a very versatile packaging film resin. The higher melt index also makes this polymer ideally suited for blending into LDPE rich films.

General

Additive	- Antiblock: No - Slip: No	- Processing Aid: Yes - Thermal Stabilizer: Yes
Applications	- 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
Form(s)	Pellets	- Overwrap Film - Packaging Films - Premium Trash Bags - Stand Up Pouches - Trash Bags

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)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Peak Melting Temperature	243 °F	117 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1300 psi	9.1 MPa	ASTM D882
Tensile Strength at Yield TD	1300 psi	9.1 MPa	ASTM D882
Tensile Strength at Break MD	8700 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	8100 psi	60 MPa	ASTM D882
Elongation at Break MD	590 %	590 %	ASTM D882
Elongation at Break TD	700 %	700 %	ASTM D882
Secant Modulus MD - 1% Secant	24000 psi	160 MPa	ASTM D882
Secant Modulus TD - 1% Secant	26000 psi	180 MPa	ASTM D882
Dart Drop Impact	670 g	670 g	ASTM D1709A
Elmendorf Tear Strength MD	330 g	330 g	ASTM D1922
Elmendorf Tear Strength TD	460 g	460 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	18	18	ASTM D2457
Haze	37 %	37 %	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 2018HA on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 396°F (202°C), a 60 mil (1.52 mm) die gap at a rate of 9 lbs/hr/in die circumference (1.61 kg/hr/cm).