

Exceed™ 2018KB

Metallocene Polyethylene Resin

Product Description

Exceed 2018KB is a metallocene catalyzed ethylene-hexene copolymer. Films made from Exceed 2018KB 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: 2500 ppm - Slip: 800 ppm	- Processing Aid: Yes - Thermal Stabilizer: Yes	
Applications	- Agricultural Film - Bag in Box - Barrier Food Packaging - Blown Film - Bread Bags - Food packaging	- Form Fill And Seal Packaging - Freezer Film - General Packaging - Lamination Film - Multilayer Packaging Film - Overwrap Film	- Packaging Films - Premium Trash Bags - Stand Up Pouches - Trash Bags
Form(s)	Pellets		

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	2.0 g/10 min	2.0 g/10 min	ExxonMobil Method
Peak Melting Temperature	244 °F	118 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1300 psi	8.8 MPa	ASTM D882
Tensile Strength at Yield TD	1400 psi	9.4 MPa	ASTM D882
Tensile Strength at Break MD	7400 psi	50 MPa	ASTM D882
Tensile Strength at Break TD	6400 psi	44 MPa	ASTM D882
Elongation at Break MD	570 %	570 %	ASTM D882
Elongation at Break TD	630 %	630 %	ASTM D882
Secant Modulus MD - 1% Secant	26000 psi	180 MPa	ASTM D882
Secant Modulus TD - 1% Secant	27000 psi	180 MPa	ASTM D882
Dart Drop Impact	600 g	600 g	ASTM D1709A
Elmendorf Tear Strength MD	320 g	320 g	ASTM D1922
Elmendorf Tear Strength TD	500 g	500 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	53	53	ASTM D2457
Haze	12 %	12 %	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 2018KB on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 395°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).