

Exceed™ 1012 mVLDPE Formulated

Metalocene Polyethylene Resin

Product Description

Exceed 1012 mVLDPE resins are metallocene ethylene-hexene copolymers. Films made from Exceed 1012 mVLDPE resin have outstanding cold temperature toughness, impact strength and puncture. These superior strength properties, along with excellent heat sealing and hot tack performance, make this a very versatile packaging film resin.

General

Additive	- Exceed 1012MJ: Antiblock: 4500 ppm; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes - Exceed 1012MK: Antiblock: 5000 ppm; Slip: 1000 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes		
Applications	- Bag in Box - Barrier Food Packaging - Blown Film - Food packaging - Form Fill And Seal Packaging - Freezer Film - Heavy Duty Bags - Ice Bags - Lamination Film - Multilayer Packaging Film - Stand Up Pouches		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.912 g/cm ³	0.912 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	242 °F	117 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1000 psi	7.0 MPa	ASTM D882
Tensile Strength at Yield TD	1100 psi	7.4 MPa	ASTM D882
Tensile Strength at Break MD	7900 psi	50 MPa	ASTM D882
Tensile Strength at Break TD	7000 psi	48 MPa	ASTM D882
Elongation at Break MD	460 %	460 %	ASTM D882
Elongation at Break TD	580 %	580 %	ASTM D882
Secant Modulus MD - 1% Secant	17000 psi	120 MPa	ASTM D882
Secant Modulus TD - 1% Secant	19000 psi	130 MPa	ASTM D882
Dart Drop Impact	500 g	500 g	ASTM D1709
Elmendorf Tear Strength MD	210 g	210 g	ASTM D1922
Elmendorf Tear Strength TD	330 g	330 g	ASTM D1922
Puncture Force	10 lbf	43 N	ExxonMobil Method
Puncture Energy	26 in·lb	2.9 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	45	45	ASTM D2457
Haze	15 %	15 %	ASTM D1003

Processing Statement

Film (1 mil/25.4 micron) made from Exceed 1012MJ 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).

