

Exceed™ 1012 mVLDPE Series

Metallocene Polyethylene Resin

Product Description

EXCEED 1012 mVLDPE resins are metallocene ethylene-hexene copolymer. Films made from these resins 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 1012HA: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes - Exceed 1012HJ: Antiblock: No; Slip: No; 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	238 °F	115 °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	980 psi	6.8 MPa	ASTM D882
Tensile Strength at Break MD	8300 psi	60 MPa	ASTM D882
Tensile Strength at Break TD	8000 psi	60 MPa	ASTM D882
Elongation at Break MD	450 %	450 %	ASTM D882
Elongation at Break TD	600 %	600 %	ASTM D882
Secant Modulus MD - 1% Secant	17000 psi	120 MPa	ASTM D882
Secant Modulus TD - 1% Secant	18000 psi	130 MPa	ASTM D882
Dart Drop Impact	900 g	900 g	ASTM D1709
Elmendorf Tear Strength MD	200 g	200 g	ASTM D1922
Elmendorf Tear Strength TD	310 g	310 g	ASTM D1922
Puncture Force	13 lbf	59 N	ExxonMobil Method
Puncture Energy	47 in·lb	5.3 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	30	30	ASTM D2457
Haze	24 %	24 %	ASTM D1003

Processing Statement

Film (1 mil/25.4 micron) made from Exceed 1012HA on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 403°F (206°C), a 60 mil (1.52 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).

