

Exceed™ 1012 mVLDPE Series

Metalocene 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

Availability ¹	• Latin America	• North America	• South America
Additive	• Exceed 1012CJ: Antiblock: No; Processing Aid: Yes; Slip: No • Exceed 1012CA: Antiblock: No; Processing Aid: Yes; Slip: No; 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
Revision Date	• March 2010		

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	241 °F	116 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1090 psi	7.50 MPa	ASTM D882
Tensile Strength at Yield TD	1070 psi	7.40 MPa	ASTM D882
Tensile Strength at Break MD	10400 psi	72.0 MPa	ASTM D882
Tensile Strength at Break TD	9280 psi	64.0 MPa	ASTM D882
Elongation at Break MD	500 %	500 %	ASTM D882
Elongation at Break TD	650 %	650 %	ASTM D882
Secant Modulus MD - 1% Secant	19000 psi	131 MPa	ASTM D882
Secant Modulus TD - 1% Secant	20300 psi	140 MPa	ASTM D882
Dart Drop Impact	820 g	820 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	14.6 lbf	65.0 N	ExxonMobil Method
Puncture Energy	51.3 in·lb	5.80 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	39	39	ASTM D2457
Haze	16 %	16 %	ASTM D1003

Typical properties: these are not to be construed as specifications.

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ExxonMobil Chemical Exceed™ 1012 mVLDPE Series Metallocene Polyethylene Resin

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 1012CA mVLDPE on a 2.5 inch blown film line having a 6 inch die with a 60 mil die gap at a 2.5:1 blow-up ratio and a melt temperature of 403-405°F (206-207°C).

Notes

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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