

# EXCEED<sup>TM</sup> mVLDPE

## EXCEED 1012CA

### Film Resin

#### Description

EXCEED 1012CA mVLDPE resin is a hexene copolymer produced using ExxonMobil Chemical's EXXPOL<sup>®</sup> Technology.

Films made from EXCEED 1012CA 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.

#### Applications

- Food packaging
- Laminations
- Heavy duty bags
- Multilayer packaging film
- Shipping sacks

Additive Package	PPA	Antiblock	Slip	Thermal Stabilizer
EXCEED 1012CA	Yes	No	No	Yes

Resin Properties	Test Based On	Typical Value / Unit
Melt Index	ASTM D 1238	1 g/10 min
Density	ExxonMobil Method	0.912 g/cm <sup>3</sup>
Peak Melting Temperature	ExxonMobil Method	116 °C      241 °F

Film Properties <sup>1</sup> (@ thickness 25 μ (1 mil))				
Tensile Strength at Yield	MD	ASTM D 882	7.5 MPa	1080 psi
	TD		7.4 MPa	1070 psi
Tensile Strength at Break	MD	ASTM D 882	72 MPa	10390 psi
	TD		64 MPa	9230 psi
Elongation at Break	MD	ASTM D 882		500 %
	TD			650 %
1% Secant Modulus	MD	ASTM D 882	131 MPa	19000 psi
	TD		140 MPa	20400 psi
Haze		ASTM D 1003		16 %
Gloss MD, 45°		ASTM D 2457		39
Dart Drop Impact Strength, F50		ASTM D 1709A		820 g
Elmendorf Tear Strength	MD	ASTM D 1922		210 g
	TD			330 g
Puncture Force		ExxonMobil Method	65 N	14.6 Lb
	Energy		5.8 J	51.7 in-lb

1. Film made from Exceed 1012CA 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 402-405°F (206-207°C).

Exceed 1012CA can - in principle - be used in food contact applications in all EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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