Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ LD 4221.BA

Low Density Polyethylene

Product Description

ExxonMobil™ LD 4221.BA is an LDPE extrusion coating grade, designed to have excellent processabiltity combined with heat sealability and adhesion. It offers -Excellent neck-in/draw down balance, resulting in low edge trim i.e. less waste and high processing line speed. - Good barrier to water vapor, e.g. for applications in portion packaging (sugar, salt)

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ LD 4221.BA: Antiblock: No; Slip: No; Thermal Stabilizer: No		
Applications	▪ Coextrusion Coating ▪ Extrusion Coating ▪ Extrusion Lamination	▪ Foams ▪ Food Packaging ▪ Industrial Packaging	▪ Liquid Packaging
Form(s)	▪ Pellets		
Revision Date	▪ 03/01/2010		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.921	g/cm³	0.921	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	4.2	g/10 min	4.2	g/10 min	ASTM D1238
Peak Melting Temperature	228	°F	109	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	203	°F	95	°C	ASTM D1525

Coating Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Draw Down (Constant output at 35 rpm)	200	m/min	200	m/min	ExxonMobil Method
Neck-in					ExxonMobil Method
164 ft/min (50 m/min), Constant output at 35 rpm	1.6	in	4.1	cm	
328 ft/min (100 m/min), Constant output at 35 rpm	1.5	in	3.8	cm	

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

Typical values obtained on a pilot co-extrusion line at ExxonMobil Chemical Europe Technical Center at an air gap of 170 mm (6.7 in).

Notes

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

[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.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

Product Datasheet

ExxonMobil™ LD 4221.BA
Low Density Polyethylene

For additional technical, sales and order assistance: Contact Us

©2025 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene