Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ LD 4023.AT

Low Density Polyethylene

Product Description

LD 4023 series are LDPE grades, which offer good draw down and optical properties.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	
Additive	▪ Antiblock: 1200 ppm	▪ Slip: 900 ppm	▪ Thermal Stabilizer: Yes
Applications	▪ Cast Film ▪ High Clarity Film	▪ Laundry Film ▪ Produce Bags	▪ Profile Extrusion ▪ Zipper Bag
Revision Date	▪ 01/01/2017		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.923	g/cm³	0.923	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	4.0	g/10 min	4.0	g/10 min	ASTM D1238
Peak Melting Temperature	226	°F	108	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	1500	psi	10	MPa	ASTM D882
Tensile Strength at Yield TD	1400	psi	9.6	MPa	ASTM D882
Tensile Strength at Break MD	3300	psi	23	MPa	ASTM D882
Tensile Strength at Break TD	2200	psi	15	MPa	ASTM D882
Elongation at Break MD	180	%	180	%	ASTM D882
Elongation at Break TD	490	%	490	%	ASTM D882
Secant Modulus MD - 1% Secant	25000	psi	170	MPa	ASTM D882
Secant Modulus TD - 1% Secant	30000	psi	210	MPa	ASTM D882
Dart Drop Impact	70	g	70	g	ASTM D1709A
Elmendorf Tear Strength MD	290	g	290	g	ASTM D1922
Elmendorf Tear Strength TD	110	g	110	g	ASTM D1922

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	71		71		ASTM D2457
Haze	5.2	%	5.2	%	ASTM D1003

Additional Information

LD 4023.AT can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migrations 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.

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Processing Statement

The test specimen were prepared on LD 4023.AT, 30µm (1.18 mil) thick film, using a 200 mm (7.9 in) die, die gap of 1.0 mm (39.4 mil), Blow-Up Ratio of 2.5 and temperature profile of 180 - 190°C (356 - 374°F) 338°F.

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

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Low Density Polyethylene

For additional technical, sales and order assistance: Contact Us

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