PAKRO KİMYA
Plastik Hammadde Çözüm Ortağınız

Pakro Kimya Dış Ticaret A.Ş.
İstoç Ticaret Merkezi Aktem Plaza
Kat:5 Daire:33 Bağcılar/İstanbul

0212 659 26 01-02
0212 659 26 03
www.pakrokimya.com.tr
Info@pakrokimya.com.tr

Product Datasheet

ExxonMobil™ LDPE LD 105 Series

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 105 resins are homopolymer packaging film resins designed for applications requiring outstanding clarity with good stiffness. These resins can be processed in either blown or cast film equipment. In blown film equipment LD 105.30 and LD 105.DS resins can be drawn down to 1.0 mil gauge.

General

Availability [1]	▪ Asia Pacific	▪ Latin America	▪ North America
Additive	▪ LD 105.BR: Antiblock: 1000 ppm; Slip: 750 ppm; Thermal Stabilizer: Yes ▪ LD 105.DS: Antiblock: 1000 ppm; Slip: No; Thermal Stabilizer: Yes		
Applications	▪ Blend Partner ▪ Bread Bags ▪ Display Packaging Film ▪ Food Packaging ▪ Form Fill And Seal Packaging	▪ Freezer Film ▪ High Clarity Film ▪ High Quality Lamination ▪ Lamination Film ▪ Laundry Film	▪ Light Duty Shrink Film ▪ Produce Bags ▪ Salad Bags ▪ Textile Packaging
Revision Date	▪ 06/17/2020		

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)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Peak Melting Temperature	234	°F	112	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	203	°F	95.0	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	1500	psi	11	MPa	ASTM D882
Tensile Strength at Yield TD	1600	psi	11	MPa	ASTM D882
Tensile Strength at Break MD	3400	psi	23	MPa	ASTM D882
Tensile Strength at Break TD	2800	psi	19	MPa	ASTM D882
Elongation at Break MD	180	%	180	%	ASTM D882
Elongation at Break TD	510	%	510	%	ASTM D882
Secant Modulus MD - 1% Secant	31000	psi	210	MPa	ASTM D882
Secant Modulus TD - 1% Secant	37000	psi	250	MPa	ASTM D882
Dart Drop Impact	90	g	90	g	ASTM D1709A
Elmendorf Tear Strength MD	290	g	290	g	ASTM D1922
Elmendorf Tear Strength TD	190	g	190	g	ASTM D1922
Puncture Force	8	lbf	37	N	ExxonMobil Method
Puncture Energy	5.1	in·lb	0.58	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	78		78		ASTM D2457
Haze	5.1	%	5.1	%	ASTM D1003

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

Film (1.5 mil/38.1 micron) made from LD 105.30 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 340-360°F (171-182°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

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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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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