**20 0212 659 26 03** 

☑ 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 <sup>1</sup>	<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Latin America</li> </ul>	<ul> <li>North America</li> </ul>
Additive		1000 ppm; Slip: 750 ppm; Thermal Sta 1000 ppm; Slip: No; Thermal Stabilizer	
Applications	<ul> <li>Blend Partner</li> <li>Bread Bags</li> <li>Display Packaging Film</li> <li>Food Packaging</li> <li>Form Fill And Seal Pack</li> </ul>	<ul> <li>Lamination Film</li> </ul>	<ul><li>Light Duty Shrink Film</li><li>Produce Bags</li><li>Salad Bags</li><li>Textile Packaging</li></ul>
Revision Date	• 06/17/2020		
Resin Properties	Typical Value (I		
Density	0.923 g		g/cm <sup>3</sup> ASTM D1505
Melt Index (190°C/2.16 kg)			g/10 min ASTM D1238
Peak Melting Temperature	234 °	PF 112	°C ExxonMobil Method
Thermal	Typical Value (I	English) Typical Value	(SI) Test Based On
Vicat Softening Temperature	203 °	F 95.0	°C ExxonMobil Method
Film Properties	Typical Value (	Trainel Value	(SI) Test Based On
Tensile Strength at Yield MD	Typical Value (I	<i>J</i>	MPa ASTM D882
Tensile Strength at Yield TD	1600 p		
Tensile Strength at Break MD	3400 p		MPa ASTM D882
Tensile Strength at Break TD		osi 19	
Elongation at Break MD	180 9	-	
Elongation at Break TD	510 9		
Secant Modulus MD - 1% Secant	31000 p		MPa ASTM D882
Secant Modulus TD - 1% Secant	37000 p		MPa ASTM D882
Dart Drop Impact	90 0		
Elmendorf Tear Strength MD			. — — — — — — — — — — — — — — — — — — —
Elmendorf Tear Strength TD	190 d		<del></del>
Puncture Force	8 II		, -
Puncture Energy	5.1 ir	n·lb 0.58	J ExxonMobil Method
		- 0.12	(0)
Optical Properties	Typical Value (I		
Gloss (45°)	78	78	ASTM D2457
Haze	5.1 9	% 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).

Effective Date: 06/17/2020 ExxonMobil Page: 1 of 2



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#### Notes

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

<sup>1</sup> 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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