

ExxonMobil™ HD 6307FL

High Density Polyethylene

Product Description

ExxonMobil™ HD 6307FL is a homopolymer HDPE film grade designed to improve stiffness and barrier in coextrusion or in PE blends. When blended with LLDPE or metallocene LLDPE, HD 6307FL improves their processability.

General

Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America
Additive	<ul style="list-style-type: none"> Antiblock: No Slip: No 	<ul style="list-style-type: none"> Processing Aid: No Thermal Stabilizer: Yes 	
Applications	<ul style="list-style-type: none"> Blown Film Bread Bags Collation Shrink Food Packaging Form Fill And Seal Packaging Freezer Film 	<ul style="list-style-type: none"> General Packaging Industrial Packaging Label Film Lamination Film Multilayer Packaging Film Overwrap Film 	<ul style="list-style-type: none"> Packaging Films Shoppers Shrink Film Stand Up Pouches
Form(s)	<ul style="list-style-type: none"> Pellets 		
Revision Date	<ul style="list-style-type: none"> 05/31/2024 		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.963 g/cm ³	0.963 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.73 g/10 min	0.73 g/10 min	ASTM D1238
Peak Melting Temperature	275 °F	135 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD 20 in/min (500 mm/min)	4700 psi	32 MPa	ExxonMobil Method
Tensile Strength at Yield TD 20 in/min (500 mm/min)	4100 psi	28 MPa	ExxonMobil Method
Tensile Strength at Break MD 20 in/min (500 mm/min)	6900 psi	47 MPa	ExxonMobil Method
Tensile Strength at Break TD 20 in/min (500 mm/min)	4700 psi	33 MPa	ExxonMobil Method
Elongation at Break MD 20 in/min (500 mm/min)	420 %	420 %	ExxonMobil Method
Elongation at Break TD 20 in/min (500 mm/min)	8 %	8 %	ExxonMobil Method
Secant Modulus MD - 1% Secant	168000 psi	1160 MPa	ExxonMobil Method
Secant Modulus TD - 1% Secant	220000 psi	1510 MPa	ExxonMobil Method
Dart Drop Impact (Method A)	< 70 g	< 70 g	ExxonMobil Method
Elmendorf Tear Strength MD	7 g	7 g	ASTM D1922
Elmendorf Tear Strength TD	510 g	510 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	11	11	ASTM D2457
Haze	> 30 %	> 30 %	ASTM D1003

Additional Information

Monolayer Film:

ExxonMobil™ HD 6307FL can be added to LDPE, LLDPE or mLLDPE films to increase stiffness when high transparency is not mandatory.

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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

Film (1.0 mil/25.4 micron) made from ExxonMobil™ HD 6307FL resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 405-425°F (207-218°C), a 60 mil (1.5 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).

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: [Contact Us](#)

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