ExxonMobil Signature Polymers

ExxonMobil™ HD 5290HLFL

High Density Polyethylene

Product Description

ExxonMobil™ HD 5290HLFL is a high molecular weight HDPE film grade. Films made from ExxonMobil™ HD 5290HLFL exhibit excellent impact and toughness properties as well as high stiffness.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Blown Film ▪ Grocery Sacks ▪ Liners	▪ Produce Bags ▪ Produce Bags On A Roll ▪ Refuse Bags	▪ Thin Gauged Consumer Bags ▪ Trash Can Liners
Revision Date	▪ 09/15/2016		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.952	g/cm³	0.952	g/cm³	ASTM D1505
High Load Melt Index (190°C/21.6 kg)	9.0	g/10 min	9.0	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.32	g/10 min	0.32	g/10 min	ASTM D1238

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	259	°F	126	°C	ASTM D1525

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	5900	psi	41	MPa	ASTM D882
Tensile Strength at Yield TD	4400	psi	30	MPa	ASTM D882
Tensile Strength at Break MD	8600	psi	60	MPa	ASTM D882
Tensile Strength at Break TD	8100	psi	60	MPa	ASTM D882
Elongation at Break MD	220	%	220	%	ASTM D882
Elongation at Break TD	430	%	430	%	ASTM D882
Secant Modulus MD - 1% Secant	170000	psi	1200	MPa	ASTM D882
Secant Modulus TD - 1% Secant	170000	psi	1200	MPa	ASTM D882
Dart Drop Impact	190	g	190	g	ASTM D1709A
Elmendorf Tear Strength MD	8	g	8	g	ASTM D1922
Elmendorf Tear Strength TD	30	g	30	g	ASTM D1922

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 film properties have been measured on 15 µm (0.59 mil) thick films with a blow-up ratio of 4 : 1 and a frostline height of 9 x die diameter (die diameter/ gap: 120mm/1.5mm (4.7 in/0.06 in); 215°C (419°F) melt temperature; 70 kg/hr (154 lb/hr) output).

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.

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For additional technical, sales and order assistance: Contact Us

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