ExxonMobil Signature Polymers

ExxonMobil™ HD 6001

(Legacy name: ExxonMobil™ HDPE HD 7957.04)

High Density Polyethylene

Product Description

ExxonMobil™ HD 6001 is a high molecular weight HDPE film resin. Films made with ExxonMobil™ HD 6001 exhibit excellent tensile properties, as well as high stiffness. ExxonMobil™ HD 6001 is particularly suited for draw tape applications.

General

Availability [1]	▪ Latin America	▪ North America
Applications	▪ Draw Tape	
Form(s)	▪ Pellets	
Revision Date	▪ 08/21/2020	

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.960	g/cm³	0.960	g/cm³	ASTM D1505
Melt Index [2] (190°C/2.16 kg)	0.057	g/10 min	0.057	g/10 min	ASTM D1238

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Peak Melting Temperature	271	°F	133	°C	ExxonMobil Method
Crystallization Peak, Tc	246	°F	119	°C	ExxonMobil Method

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	5200	psi	36	MPa	ASTM D882
Tensile Strength at Break MD	13000	psi	90	MPa	ASTM D882
Tensile Strength at Break TD	11000	psi	80	MPa	ASTM D882
Elongation at Break MD	310	%	310	%	ASTM D882
Elongation at Break TD	380	%	380	%	ASTM D882
Secant Modulus MD - 1% Secant	180000	psi	1300	MPa	ASTM D882
Secant Modulus TD - 1% Secant	180000	psi	1300	MPa	ASTM D882
Dart Drop Impact	290	g	290	g	ASTM D1709A
Elmendorf Tear Strength MD	9	g	9	g	ASTM D1922
Elmendorf Tear Strength TD	20	g	20	g	ASTM D1922

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 (0.5 mil/12.7 micron) made from HD 6001 resin on a 3.8 inch (96.5 mm) blown film line with a 3.8:1 blow-up ratio, a 7.5:1 stalk to die diameter ratio, a melt temperature of 370°F, (188°C), a a 59 mil (1.5 mm) die gap at a rate of 10.75 lbs/hr/in die circumference (1.92 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.

[2] Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

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

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