Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ HD 5201

High Density Polyethylene

Product Description

ExxonMobil™ HD 5201 is a high molecular weight high density polyethylene blown film resin. Films made from HD 5201 resin exhibit excellent impact and toughness properties, as well as high stiffness. HD 5201 resin is particularly recommended for films less than 0.5 mil in thickness.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No ▪ Slip: No	▪ Processing Aid: No ▪ Thermal Stabilizer: Yes	
Applications	▪ Blown Film ▪ Grocery Sacks	▪ Institutional Can Liners ▪ Merchandise Bags	▪ Produce Bags On A Roll ▪ Trash Bags
Form(s)	▪ Pellets		
Revision Date	▪ 04/01/2019		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.952	g/cm³	0.952	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.060	g/10 min	0.060	g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6 kg)	9.3	g/10 min	9.3	g/10 min	ASTM D1238
Peak Melting Temperature	266	°F	130	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	5400	psi	37	MPa	ASTM D882
Tensile Strength at Yield TD	4700	psi	32	MPa	ASTM D882
Tensile Strength at Break MD	13000	psi	90	MPa	ASTM D882
Tensile Strength at Break TD	10000	psi	70	MPa	ASTM D882
Elongation at Break MD	290	%	290	%	ASTM D882
Elongation at Break TD	390	%	390	%	ASTM D882
Secant Modulus MD - 1% Secant	150000	psi	1000	MPa	ASTM D882
Secant Modulus TD - 1% Secant	160000	psi	1100	MPa	ASTM D882
Dart Drop Impact	320	g	320	g	ASTM D1709A
Elmendorf Tear Strength MD	7	g	7	g	ASTM D1922
Elmendorf Tear Strength TD	40	g	40	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 7960.13 resin on a 1.97 inch (50 mm) blown film line with a 4:1 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.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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For additional technical, sales and order assistance: Contact Us

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Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene