Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ HD 5207

High Density Polyethylene

Product Description

ExxonMobil™ HD 5207 is a general purpose medium molecular weight HDPE grade, characterized by easy processability, especially in coextrusion and blending with other polyolefins. ExxonMobil™ HD 5207 can also be used pure, especially for easy processing and conversion into small and thin bags, to be used for light item packaging.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Blown Film ▪ Collation Shrink ▪ Food Packaging ▪ General Packaging ▪ Grocery Sacks	▪ Heavy Duty Bags ▪ Industrial Packaging ▪ Label Film ▪ Shrink Film ▪ Stand Up Pouches	▪ Thin Gauged Consumer Bags ▪ Trash 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)	16	g/10 min	16	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.68	g/10 min	0.68	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	4200	psi	29	MPa	ASTM D882
Tensile Strength at Yield TD	4200	psi	29	MPa	ASTM D882
Tensile Strength at Break MD	8000	psi	60	MPa	ASTM D882
Tensile Strength at Break TD	7300	psi	50	MPa	ASTM D882
Elongation at Break MD	320	%	320	%	ASTM D882
Elongation at Break TD	450	%	450	%	ASTM D882
Secant Modulus MD - 1% Secant	140000	psi	960	MPa	ASTM D882
Secant Modulus TD - 1% Secant	170000	psi	1200	MPa	ASTM D882
Dart Drop Impact	160	g	160	g	ASTM D1709A
Elmendorf Tear Strength MD	8	g	8	g	ASTM D1922
Elmendorf Tear Strength TD	60	g	60	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

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/1.0mm (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.

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