

ExxonMobil™ HDPE HD 7960.13

High Density Polyethylene Resin

Product Description

ExxonMobil™ HD 7960.13 is a high molecular weight high density polyethylene blown film resin. Films made from HD 7960.13 resin exhibit excellent impact and toughness properties, as well as high stiffness. HD 7960.13 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: Yes ▪ 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/cm ³	0.952 g/cm ³	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 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.

