ExxonMobil™ HDPE HD 7960.13

High Density Polyethylene Resin

Product Description

HD 7960.13 is a high molecular weight HDPE blown film resin. Films made from HD 7960.13 exhibit excellent impact and toughness properties, as well as high stiffness. HD 7960.13 is particularly recommended for films less than 0.5 mil in thickness.

General

Availability [1]	▪ Latin America	▪ North America	
Applications	▪ Blown Film ▪ Grocery Sacks	▪ Institutional Can Liners ▪ Merchandise Bags	▪ Produce Bags On A Roll ▪ Trash Bags
Revision Date	▪ 12/01/2012		

Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.952	g/cm³	0.952	g/cm³	ASTM D1505
Melt Index [2] (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)	10	g/10 min	10	g/10 min	ASTM D1238
Peak Melting Temperature	267	°F	130	°C	ExxonMobil Method

Film Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	5500	psi	38	MPa	ASTM D882
Tensile Strength at Yield TD	4800	psi	33	MPa	ASTM D882
Tensile Strength at Break MD	12000	psi	80	MPa	ASTM D882
Tensile Strength at Break TD	10000	psi	70	MPa	ASTM D882
Elongation at Break MD	270	%	270	%	ASTM D882
Elongation at Break TD	380	%	380	%	ASTM D882
Secant Modulus MD - 1% Secant	150000	psi	1100	MPa	ASTM D882
Secant Modulus TD - 1% Secant	160000	psi	1100	MPa	ASTM D882
Dart Drop Impact	300	g	300	g	ASTM D1709A
Elmendorf Tear Strength MD	7	g	7	g	ASTM D1922
Elmendorf Tear Strength TD	30	g	30	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 on a 1.97 inch (50mm) blown film line with a 4:1 blown-up ratio, a 7.5:1 stalk to die diameter ratio, a melt temperature of 370°F (188°C), a 59 mil (1.5mm) 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.

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